



CATALOGUE 2013

OPTOELECTRONIC COMPONENTS

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EVERLIGHT

THE SOURCE OF LIGHT

EVERLIGHT illuminates the way for many of the world's brightest companies. Acclaimed as a premiere global solution provider in the opto-semiconductor industry and held in high regard as a reliable partner for many of the world's leading electronics companies, EVERLIGHT incorporates versatility and creativity to provide customer driven value.

Since its foundation in 1983, EVERLIGHT has been an innovator in the production of LED for home appliances. Today EVERLIGHT brings decades of knowledge to a wide range of applications in the LED market including automotive, backlighting, solid state lighting, infrared products, mobile devices and signage.

From intelligent infrared sensors in mobile devices and backlit dashboards in automobiles to high-precision controls for industrial applications, EVERLIGHT improves the way we live. In addition, with applications for highly efficient indoor and outdoor lighting in offices, homes, landmarks and cities, EVERLIGHT's technology lights up the very spaces and places we enjoy everyday. In other words: EVERLIGHT makes the world brighter, more colorful and enhances quality of life.

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CONDITIONS OF RoHS

From July 1st, 2006, RoHS requires that all electrical equipment should not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) or poly brominated diphenyl ethers (PBDEs), and the elements are restricted to certain amount (such as mercury in a wound lighting tube <5 mg, lead in CRT glass, soldering tin, etc.). Before the date every member of European Union must obey of environment on chemical regulation.



- According to RoHS part, the norm of restrict and limit used substance adopted by EVERLIGHT.

Name	Description	Criteria
Cadmium	Cadmium and its compounds must not be present in parts, components, materials or products. Cadmium and its compounds must not used as stabilizers, coloring agent or as a surface coating treatment in parts, components, materials or products.	< 5 ppm (Plastics) < 75 ppm (Metals)
Lead restrictions	Lead and/or lead compounds shall not be present in hardware components or parts, however, except solder, electrical components and interconnect materials. Lead carbonates and sulfates must not be used in any paint applied to parts, component, or products.	< 100 ppm (Plastics) < 1000 ppm (Others)
Mercury restrictions	Mercury must not be contained in any part, material, components or product, including, but not limited to switches, relays or electrical contacts. This restriction does not apply to lamps with less than 10 mg if mercury.	< 5 ppm
Hexavalent chromium (chromium VI) and hexavalent chromium compounds	Hexavalent chromium (chromium VI) and hexavalent chromium compounds must not be present in parts, components, materials or products.	< 2 ppm
Polybrominated Biphenyls (PBBs)	Plastics parts, components, materials and products must not contain Polybrominated Biphenyls as flame retardants, specific PBBs, but are not limited to those listed in attachment item.	< 5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	Plastic parts, components, materials and products must not contain Polybrominated Diphenyl Ethers, known as flame retardants, specific PBBEs, including, but are not limited to, those listed in attachment item.	< 5 ppm

Compliant with the following condition :

- Please visit EVERLIGHT website for more updated information about third party test reports and RoHS declarations.
(www.everlight.com)

APPLICATION NOTICE

Since we are continuously improving all of our products, the information listed in this Catalogue, which includes specifications, characteristics, data, materials used, structure, etc., are subject to change without prior notice. It is necessary that you request the newest specification sheet from EVERLIGHT when you place any inquiry or purchase order.

Please carefully read the specification sheet, and confirm your acceptance of the content. EVERLIGHT does not accept any liabilities for damages occurred due to the customer's lack of confirming the newest product specification.

It is important to strictly follow the maximum limit and other important instructions listed on the specifications sheet when using EVERLIGHT's products. The following is a list of special notes for products used in specific applications. It is recommended that customers read the instructions carefully before installing the products. Again, EVERLIGHT does not accept any liabilities for any improper use of EVERLIGHT's product or failure to follow the instructions listed herein:

Special Instruction:

- Products listed in this Catalogue are designed primarily for the application listed below:
A : Calculators
B : Measurement equipment
C : AV machines
D : QA machines
E : Operating machines
F : Consumer electronics
G : Telecommunications

While products meet the application listed above, additional attention is required when products are to be utilized in the instruments listed under Special Instruction Notes 2 and 3.

- When high reliability and safety concerns are required, it is very important that the design be made to focus on safety and long term reliability. Special care should be given to assure that EVERLIGHT's products integrate and function properly with all other parts of the instrument. Instruments fall into these categories include:

- A : Instruments attached to transportation tools
(aircraft, train, automobile)
- B : Traffic signs
- C : Gas leaking detectors and gas shutters
- D : Fire detectors
- E : Other safety detectors

- When extremely high reliability and safety concerns are required, it is necessary that you contact EVERLIGHT for additional information before use. Instruments fall into these categories include:

- A : Aerospace instruments
- B : Telecommunication tools (main line)
- C : Nuclear weapon controls
- D : Medical instruments

- Should you have any additional questions, please contact EVERLIGHT for details.

本資料所記載之製品的規格、特性、**DATA**、使用原料、構造...等，有時為了改良製品，無法事前通知，而逕行與予變更。因此請務必使用最新的規格書，並請針對內容加以確認。若因未確認規格書，導致使用次製品之機器或其他應用產品發生瑕疵時，敝公司將不負此責任。

使用本資料所記載之製品時，請遵守規格書所記載之絕對最大定格，使用上之注意事項，以及下列之注意點，若因不遵守規格書所記載之絕對最大定格，使用上之注意事項，以及下述之注意點，而導致發生損害問題時，敝公司將不負此責任。

注意項目：

- 本資料所記載之製品，原則是為了下述之用途而製造出來的產品
A: 電算機
B: OA機器
C: 通信機器
D: 計測機器
E: 工作機器
F: AV機器
G: 家電製品

若雖合乎上述用途，但是屬於下述2或3所記載之機器時，則需遵守個別產品之使用注意事項。

- 若本資料所記載之製品用於下述講求高信賴性與安全性之用途時，因牽涉到機能與精度方面，為了維持這類機器的信賴性與安全性，請務必注重安全設計與長期性設計，並且需考慮整體機構間的關係，依機器整體之安全設計來使用。
A: 運送機器(飛機、火車、汽車)與控制安全性等相關之產品
B: 交通信號機
C: 瓦斯漏氣檢測關閉機
D: 防災裝置
E: 各種安全裝置
- 若本資料所記載之製品用於下述講求高信賴性與安全性之用途時，因牽涉到機能與精度方面，請事先與敝公司聯絡。
A: 太空機器(航太儀器)
B: 通信機器(幹線)
C: 原子彈控制機器
D: 醫療機器
- 涉及上述注意事項之任何一項時，如有疑問，請和敝公司業務人員聯絡。

TECHNICAL DATA

HIGH POWER LED (SHUEN 炫, SHWO 爍, SHWO (D) 爍(D), HV, JU 炬, A22, B05)
CIE BINNING RANKS

Cool-White Bin Coordinates

5000K				
Bin	50K-1	50K-2	50K-3	50K-4
CIE X	0.346	0.338	0.337	0.345
	0.345	0.337	0.337	0.344
	0.353	0.345	0.344	0.352
	0.355	0.346	0.345	0.353
CIE Y	0.369	0.362	0.349	0.356
	0.356	0.349	0.337	0.343
	0.362	0.356	0.343	0.349
	0.376	0.369	0.356	0.362

5700K				
Bin	57K-1	57K-2	57K-3	57K-4
CIE X	0.329	0.321	0.321	0.329
	0.329	0.321	0.322	0.329
	0.337	0.329	0.329	0.337
	0.338	0.329	0.329	0.337
CIE Y	0.354	0.346	0.335	0.342
	0.342	0.335	0.324	0.331
	0.349	0.342	0.331	0.337
	0.362	0.354	0.342	0.349

6500K				
Bin	65K-1	65K-2	65K-3	65K-4
CIE X	0.312	0.303	0.305	0.313
	0.313	0.305	0.307	0.315
	0.321	0.313	0.315	0.322
	0.321	0.312	0.313	0.321
CIE Y	0.339	0.330	0.321	0.329
	0.329	0.321	0.311	0.319
	0.337	0.329	0.319	0.326
	0.348	0.339	0.329	0.337

Warm-White Bin Coordinates

2700K				
Bin	27K-1	27K-2	27K-3	27K-4
CIE X	0.469	0.456	0.447	0.459
	0.459	0.447	0.437	0.448
	0.470	0.459	0.448	0.459
	0.481	0.469	0.459	0.470
CIE Y	0.429	0.426	0.408	0.410
	0.410	0.408	0.389	0.392
	0.413	0.410	0.392	0.394
	0.432	0.429	0.410	0.413

3000K				
Bin	30K-1	30K-2	30K-3	30K-4
CIE X	0.443	0.430	0.422	0.435
	0.435	0.422	0.415	0.426
	0.447	0.435	0.426	0.437
	0.456	0.443	0.435	0.447
CIE Y	0.421	0.417	0.399	0.403
	0.403	0.399	0.381	0.385
	0.408	0.403	0.385	0.389
	0.426	0.421	0.403	0.408

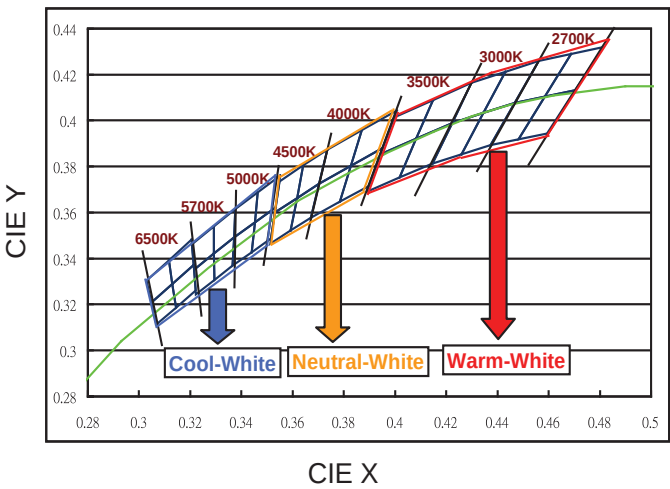
3500K				
Bin	35K-1	35K-2	35K-3	35K-4
CIE X	0.415	0.400	0.394	0.408
	0.408	0.394	0.389	0.402
	0.422	0.408	0.402	0.415
	0.430	0.415	0.408	0.422
CIE Y	0.409	0.402	0.385	0.392
	0.392	0.385	0.369	0.375
	0.399	0.392	0.375	0.381
	0.417	0.409	0.392	0.399

Natural-White Bin Coordinates

4000K				
Bin	40K-1	40K-2	40K-3	40K-4
CIE X	0.387	0.374	0.370	0.383
	0.383	0.370	0.367	0.378
	0.395	0.383	0.378	0.390
	0.401	0.387	0.383	0.395
CIE Y	0.396	0.387	0.373	0.380
	0.380	0.373	0.358	0.365
	0.388	0.380	0.365	0.372
	0.404	0.396	0.380	0.388

4500K				
Bin	45K-1	45K-2	45K-3	45K-4
CIE X	0.364	0.355	0.353	0.362
	0.362	0.353	0.351	0.359
	0.370	0.362	0.359	0.367
	0.374	0.364	0.362	0.370
CIE Y	0.381	0.374	0.360	0.366
	0.366	0.360	0.347	0.352
	0.373	0.366	0.352	0.358
	0.387	0.381	0.366	0.373

■ White Color Bin Structure



TECHNICAL DATA

HIGH POWER LED (SHUEN炫, SHWO爍, SHWO(D)爍(D), HV, JU炬, A22, B05)
BRIGHTNESS BINNING RANKS

Shuen, Shwo, Shwo (D), HV
Brightness (lm)
Luminous Flux Bins

Group	Binning	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
E	1	4	5
	2	5	6
	3	6	8
	4	8	10
	5	10	13
	6	13	17
	7	17	20
	8	20	23
	9	23	27
F	1	27	33
	2	33	39
	3	39	45
	4	45	52
	5	52	60
	6	60	70
	7	70	80
	8	80	90
	9	90	100
J	1	100	110
	2	110	120
	3	120	130
	4	130	140
	5	140	150
	6	150	160
	7	160	180
	8	180	200
	9	200	225
K	1	225	250
	2	250	275
	3	275	300
	4	300	325
	5	325	350
	6	350	375
	7	375	400
	8	400	425
	9	425	450
N	1	450	475
	2	475	500
	3	500	525
	4	525	550

Shuen, Shwo
Wavelength (nm)

Group	Binning	Minimum Dominant Wavelength (nm)	Maximum Dominant Wavelength (nm)
B Blue/Royal-Blue	1	430	435
	2	435	440
	3	440	445
	4	445	450
	5	450	455
	6	455	460
	7	460	465
	8	465	470
G Green	1	520	525
	2	525	530
	3	530	535
	4	535	540
	5	540	545
	6	545	550
A Amber	1	580	582.5
	2	582.5	585
	3	585	587.5
	4	587.5	590
	5	590	592.5
R Red	6	592.5	595
	3	610	615
	4	615	620
	5	620	625
	6	625	630
	7	630	635
	1	635	640
D Deep-Red	2	640	645
	3	645	650
	4	650	655
	5	655	660
	6	660	665
	7	665	670
	8	670	675
	1	700	710
F Far-Red	2	710	715
	3	715	720
	4	720	725
	5	725	730
	6	730	735
	7	735	740
	8	740	745

Ju
Brightness (lm)
Luminous Flux Bins

Group	Binning	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
F	1	27	33
	2	33	39
	3	39	45
	4	45	52
	5	52	60
	6	60	70
	7	70	80
	8	80	90
	9	90	100
J	1	100	110
	2	110	120
	3	120	130
	4	130	140
	5	140	150
	6	150	160
	7	160	180
	8	180	200
	9	200	225
K	1	225	250
	2	250	275
	3	275	300
	4	300	325
	5	325	350
	6	350	375
	7	375	400
	8	400	425
	9	425	450
N	1	450	475
	2	475	500
	3	500	550
	4	550	600
	5	600	650
	6	650	700
	7	700	750
	8	750	800
	9	800	900
P	1	900	1000
	2	1000	1100
	3	1100	1200
	4	1200	1350
	5	1350	1500
	6	1500	1650
	7	1650	1800
	8	1800	2000
	9	2000	2200
S	1	2200	2400
	2	2400	2650
	3	2650	2900
	4	2900	3200
	5	3200	3500
	6	3500	3850
	7	3850	4200
	8	4200	4600

A22, B05
Brightness (lm)
Luminous Flux Bins

Group	Binning	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
E	1	1.5	3
	2	3	4
	3	4	5
	4	5	6
	5	6	8
F	1	8	10
	2	10	13
	3	13	17
	4	17	20
	5	20	23
J	1	23	27
	2	27	33
	3	33	39
	4	39	45
	5	45	52
K	1	52	60
	2	60	70
	31	70	75
	32	75	80
	33	80	85
	41	85	90
	42	90	95
	43	95	100
	51	100	110
	52	110	120
	53	120	130
	11	130	140
	12	140	150
	13	150	160
	21	160	180
N	22	180	200
	31	200	225
	32	225	250
	41	250	275
	42	275	300
	51	300	350
	52	350	400
	11	400	450
	12	450	500
	21	500	550
	22	550	600
	31	600	650
	32	650	700
	33	700	750
R	4	750	1000
	5	1000	1300

HIGH POWER LED (SHUEN炫, SHWO爍, SHWO(D)爍(D), A22 , B05)
FORWARD VOLTAGE BINNING RANKS

Shuen & Shwo
Forward Voltage Bins

Group Name	Bins	
A	U1+U2+U3	
B	U2+U3+U4	
C	V1+V2+V3	
D	V2+V3+V4	
E	V3+V4+V5	
F	V1+V2	
G	V1	
Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
U1	1.75	2.05
U2	2.05	2.35
U3	2.35	2.65
U4	2.65	2.95
V1	2.95	3.25
V2	3.25	3.55
V3	3.55	3.85
V4	3.85	4.15
V5	4.15	4.45

Shwo (D)
Forward Voltage Bins

Group Name	Bins	
A	U1+U2+U3+U4	
B	U2+U3+U4+V1	
C	V1+V2+V3	
D	V1+V2+V3+V4	
Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
U1	1.75	2.05
U2	2.05	2.35
U3	2.35	2.65
U4	2.65	2.95
V1	2.95	3.25
V2	3.25	3.55
V3	3.55	3.85
V4	3.85	4.15

A22 (0.5W)
Forward Voltage Bins

Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
V1	2.95	3.25
V2	3.25	3.55
V3	3.55	3.85
V4	3.85	4.15

A22 (1W)
Forward Voltage Bins

Bin		Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
VD		13.5	14.7
VE		14.7	15.9
VF	VF-1	15.9	16.2
	VF-2	16.2	16.5
	VF-3	16.5	16.8
	VF-4	16.8	17.1
VG	VG-1	17.1	17.4
	VG-2	17.4	17.7
	VG-3	17.7	18.0
	VG-4	18.0	18.3

B05
Forward Voltage Bins

Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
O1	4.5	5.0
O2	5.0	5.5
O3	5.5	6.0
O4	6.0	6.5
O5	6.5	7.0
O6	7.0	7.5
O7	7.5	8.0
R1	8.0	9.0
R2	9.0	10.0
R3	10.0	11.0
R4	11.0	12.0

TECHNICAL DATA

HIGH POWER LED (HV, JU SERIES) FORWARD VOLTAGE BINNING RANKS

HV (1W)

Forward Voltage Bins For 110V

Group Name	Bins
A	A3+A4
B	A4+A5
C	A5+A6
D	A3+A4+A5
E	A4+A5+A6
F	A3+A4+A5+A6

Bin	Production Line	
	Minimum Voltage (V)	Maximum Voltage (V)
A1	43	45
A2	45	47
A3	47	49
A4	49	51
A5	51	53
A6	53	55
A7	55	57
A8	57	59
A9	59	61

HV (2W)

Forward Voltage Bins For 110V

Group Name	Bins
A	B3+B4
B	B4+B5
C	B5+B6
D	B3+B4+B5
E	B4+B5+B6
F	B3+B4+B5+B6

Bin	Production Line	
	Minimum Voltage (V)	Maximum Voltage (V)
B1	87	91
B2	91	95
B3	95	99
B4	99	103
B5	103	107
B6	107	111
B7	111	115
B8	115	119
B9	119	123

Ju (1215, 2024)

Forward Voltage Bins

Group	Binning	Minimum Forward Voltage(V)	Maximum Forward Voltage(V)
R	R1	9	10
	R2	10	11
	R3	11	12
	R4	12	13
	R5	13	14
	R6	14	15
	R7	15	16
	R8	16	17
	R9	17	18
T	T1	18	19
	T2	19	20
	T3	20	21
	T4	21	22
	T5	22	23
	T6	23	24
	T7	24	25
	T8	25	26
	T9	26	27
W	W1	27	29
	W2	29	31
	W3	31	33
	W4	33	35
	W5	35	37
	W6	37	39
	W7	39	41
	W8	41	43
	W9	43	45
X	X1	45	47
	X2	47	50
	X3	50	53
	X4	53	56
	X5	56	59
	X6	59	63
	X7	63	67
	X8	67	71
	X9	71	75
Y	Y1	75	79
	Y2	79	83
	Y3	83	88
	Y4	88	93
	Y5	93	98
	Y6	98	103
	Y7	103	108
	Y8	108	113

For Lighting Application Only

LOW MIDDLE POWER LED - SMD TYPE CIE BINNING RANKS

Cool-White Bin Coordinates

5000K				
Bin	50K-1	50K-2	50K-3	50K-4
CIE X	0.346	0.338	0.337	0.345
	0.345	0.337	0.337	0.344
	0.353	0.345	0.344	0.352
	0.355	0.346	0.345	0.353
CIE Y	0.369	0.362	0.349	0.356
	0.356	0.349	0.337	0.343
	0.362	0.356	0.343	0.349
	0.376	0.369	0.356	0.362

5700K				
Bin	57K-1	57K-2	57K-3	57K-4
CIE X	0.329	0.321	0.321	0.329
	0.329	0.321	0.322	0.329
	0.337	0.329	0.329	0.337
	0.338	0.329	0.329	0.337
CIE Y	0.354	0.346	0.335	0.342
	0.342	0.335	0.324	0.331
	0.349	0.342	0.331	0.337
	0.362	0.354	0.342	0.349

6500K				
Bin	65K-1	65K-2	65K-3	65K-4
CIE X	0.312	0.303	0.305	0.313
	0.313	0.305	0.307	0.315
	0.321	0.313	0.315	0.322
	0.321	0.312	0.313	0.321
CIE Y	0.339	0.330	0.321	0.329
	0.329	0.321	0.311	0.319
	0.337	0.329	0.319	0.326
	0.348	0.339	0.329	0.337

Warm-White Bin Coordinates

2700K				
Bin	27K-1	27K-2	27K-3	27K-4
CIE X	0.469	0.456	0.447	0.459
	0.459	0.447	0.437	0.448
	0.470	0.459	0.448	0.459
	0.481	0.469	0.459	0.470
CIE Y	0.429	0.426	0.408	0.410
	0.410	0.408	0.389	0.392
	0.413	0.410	0.392	0.394
	0.432	0.429	0.410	0.413

3000K				
Bin	30K-1	30K-2	30K-3	30K-4
CIE X	0.443	0.430	0.422	0.435
	0.435	0.422	0.415	0.426
	0.447	0.435	0.426	0.437
	0.456	0.443	0.435	0.447
CIE Y	0.421	0.417	0.399	0.403
	0.403	0.399	0.381	0.385
	0.408	0.403	0.385	0.389
	0.426	0.421	0.403	0.408

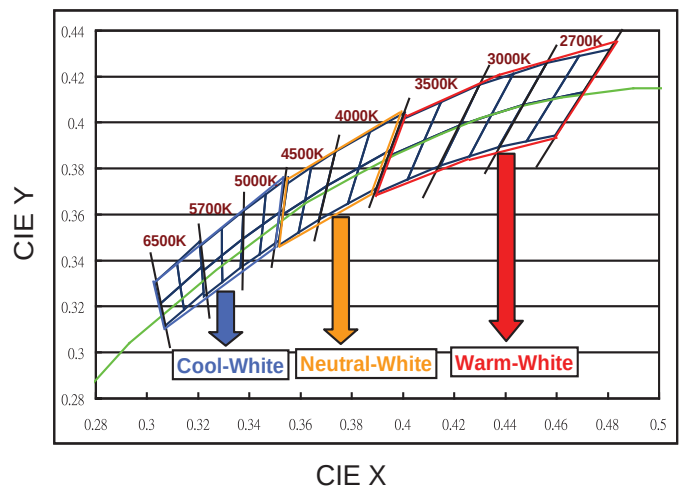
3500K				
Bin	35K-1	35K-2	35K-3	35K-4
CIE X	0.415	0.400	0.394	0.408
	0.408	0.394	0.389	0.402
	0.422	0.408	0.402	0.415
	0.430	0.415	0.408	0.422
CIE Y	0.409	0.402	0.385	0.392
	0.392	0.385	0.369	0.375
	0.399	0.392	0.375	0.381
	0.417	0.409	0.392	0.399

Natural-White Bin Coordinates

4000K				
Bin	40K-1	40K-2	40K-3	40K-4
CIE X	0.387	0.374	0.370	0.383
	0.383	0.370	0.367	0.378
	0.395	0.383	0.378	0.390
	0.401	0.387	0.383	0.395
CIE Y	0.396	0.387	0.373	0.380
	0.380	0.373	0.358	0.365
	0.388	0.380	0.365	0.372
	0.404	0.396	0.380	0.388

4500K				
Bin	45K-1	45K-2	45K-3	45K-4
CIE X	0.364	0.355	0.353	0.362
	0.362	0.353	0.351	0.359
	0.370	0.362	0.359	0.367
	0.374	0.364	0.362	0.370
CIE Y	0.381	0.374	0.360	0.366
	0.366	0.360	0.347	0.352
	0.373	0.366	0.352	0.358
	0.387	0.381	0.366	0.373

■ White Color Bin Structure



TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SURFACE MOUNT PLCC TYPE LED BRIGHTNESS BINNING RANKS

Luminous Flux Bins

Unit : lm

Bin code	Range	
	Min.	Max.
D1	0.5	1.0
D2	1.0	1.5
D3	1.5	2.0
D4	2.0	2.5
D5	2.5	3.0
D6	3.0	3.5
D7	3.5	4.0
D8	4.0	4.5
D9	4.5	5.0
BA	5.0	5.5
B1	5.5	6.0
B2	6.0	6.5
B3	6.5	7.0
B4	7.0	7.5
B5	7.5	8.0
B6	8.0	8.5
B7	8.5	9.0
B8	9.0	9.5
B9	9.5	10.0
L1	10.0	11.0
L2	11.0	12.0
L3	12.0	13.0
L4	13.0	14.0
L5	14.0	15.0
L6	15.0	16.0
L7	16.0	17.0
L8	17.0	18.0
L9	18.0	19.0
M3	19.0	21.0
M4	21.0	24.0
N3	24.0	27.0
N4	27.0	33.0
P3	33.0	39.0
P4	39.0	45.0
Q3	45.0	52.0
NB	32.0	36.0
PA	36.0	40.0
PB	40.0	45.0
QA	45.0	50.0
R1	50.0	55.0
R2	55.0	60.0
R3	60.0	65.0
R4	65.0	70.0
R5	70.0	76.0
R6	76.0	83.0
R7	83.0	90.0
R8	90.0	100.0
S1	100.0	110.0
S2	110.0	120.0
S3	120.0	130.0

VF Group Bin Code

Unit : V

Forward Voltage Group	Bin	Min.	Max.
B2	B42	35	2.80
		36	2.90
		37	3.00
		38	3.10
		39	3.20
		40	3.30
		41	3.40
		42	3.50

SMD LED : SURFACE MOUNT CHIP LED (PCB TYPE)
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

	C0: 0.28 ... 0.45	Q ▶	Q1: 72.0 ... 90.0
	D0: 0.45 ... 0.70		Q2: 90.0 ... 112
	E0: 0.70 ... 1.1	R ▶	R1: 112 ... 140
	F0: 1.1 ... 1.8		R2: 140 ... 180
	G0: 1.8 ... 2.8	S ▶	S1: 180 ... 225
	H0: 2.8 ... 4.5		S2: 225 ... 285
	J0: 4.5 ... 7.2	T ▶	T1: 285 ... 360
	K0: 7.2 ... 11.5		T2: 360 ... 450
L ▶	L1: 11.5 ... 14.5	U ▶	U1: 450 ... 565
	L2: 14.5 ... 18.0		U2: 565 ... 715
M ▶	M1: 18.0 ... 22.5		V0: 715 ... 1120
	M2: 22.5 ... 28.5		W0: 1120 ... 1800
N ▶	N1: 28.5 ... 36.0		X0: 1800 ... 2850
	N2: 36.0 ... 45.0		Y0: 2850 ... 4500
P ▶	P1: 45.0 ... 57.0		
	P2: 57.0 ... 72.0		

Note: The luminous intensity data did not include $\pm 15\%$ testing tolerance.

V_F (Forward Voltage Spec. Setup)

Unit : V

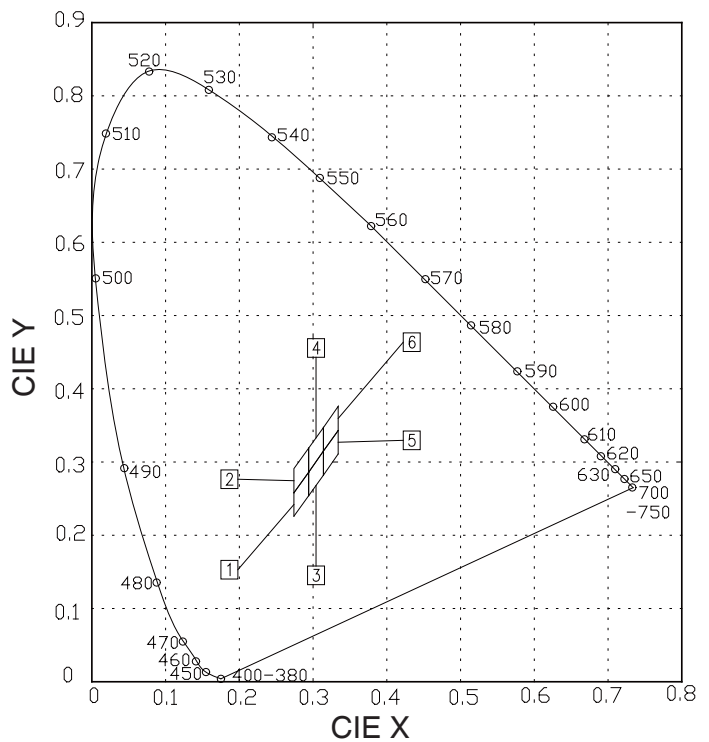
Forward Voltage Groups		Bin	Min.	Max.
	A	00	1.55	1.75
		0	1.75	1.95
		1	1.95	2.15
	B	2	2.15	2.35
		3	2.35	2.55
		4	2.55	2.75
	C	5	2.75	3.05
		6	3.05	3.35
		7	3.35	3.65
	D	8	3.65	3.95
		10	2.70	2.90
		11	2.90	3.10
	E	12	3.10	3.30
		13	3.30	3.50
		14	3.50	3.70
	F	15	2.70	2.85
		16	2.85	3.00
		17	3.00	3.15
	G	18	3.15	3.30

Note: The forward voltage data did not include $\pm 0.1V$ testing tolerance.

Bin Coordinate

Group	Bin Code	CIE_X	CIE_Y
A	1	0.274	0.226
		0.274	0.258
		0.294	0.286
		0.294	0.254
	2	0.274	0.258
		0.274	0.291
		0.294	0.319
		0.294	0.286
	3	0.294	0.254
		0.294	0.286
		0.314	0.315
		0.314	0.282
	4	0.294	0.286
		0.294	0.319
		0.314	0.347
		0.314	0.315
	5	0.314	0.282
		0.314	0.315
		0.334	0.343
		0.334	0.311
	6	0.314	0.315
		0.314	0.347
		0.334	0.376
		0.334	0.343

Bin Structure (White Light)



TECHNICAL DATA

For Lighting Application Only

SMD LED : SURFACE MOUNT PLCC LED (REFLECTOR) / LOW POWER LED BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

Bin Code	Min.	Max.	Bin Code	Min.	Max.
D1	0.5	1.0	NB	32.0	36.0
D2	1.0	1.5	PA	36.0	40.0
D3	1.5	2.0	PB	40.0	45.0
D4	2.0	2.5	QA	45.0	50.0
D5	2.5	3.0	R1	50.0	55.0
D6	3.0	3.5	R2	55.0	60.0
D7	3.5	4.0	R3	60.0	65.0
D8	4.0	4.5	R4	65.0	70.0
D9	4.5	5.0	R5	70.0	76.0
BA	5.0	5.5	R6	76.0	83.0
B1	5.5	6.0	R7	83.0	90.0
B2	6.0	6.5	R8	90.0	100.0
B3	6.5	7.0	S1	100.0	110.0
B4	7.0	7.5	S2	110.0	120.0
B5	7.5	8.0	S3	120.0	130.0
B6	8.0	8.5	S4	130.0	140.0
B7	8.5	9.0	S5	140.0	150.0
B8	9.0	9.5	S6	150.0	160.0
B9	9.5	10.0	S7	160.0	170.0
L1	10.0	11.0	S8	170.0	180.0
L2	11.0	12.0	T1	180.0	190.0
L3	12.0	13.0	T2	190.0	200.0
L4	13.0	14.0	T3	200.0	220.0
L5	14.0	15.0	T4	220.0	240.0
L6	15.0	16.0	T5	240.0	260.0
L7	16.0	17.0	T6	260.0	280.0
L8	17.0	18.0	T7	280.0	300.0
L9	18.0	19.0	T8	300.0	320.0
M3	19.0	21.0			
M4	21.0	24.0			
N3	24.0	27.0			
N4	27.0	33.0			
P3	33.0	39.0			
P4	39.0	45.0			
Q3	45.0	52.0			

V_F (Forward Voltage Spec. Setup)

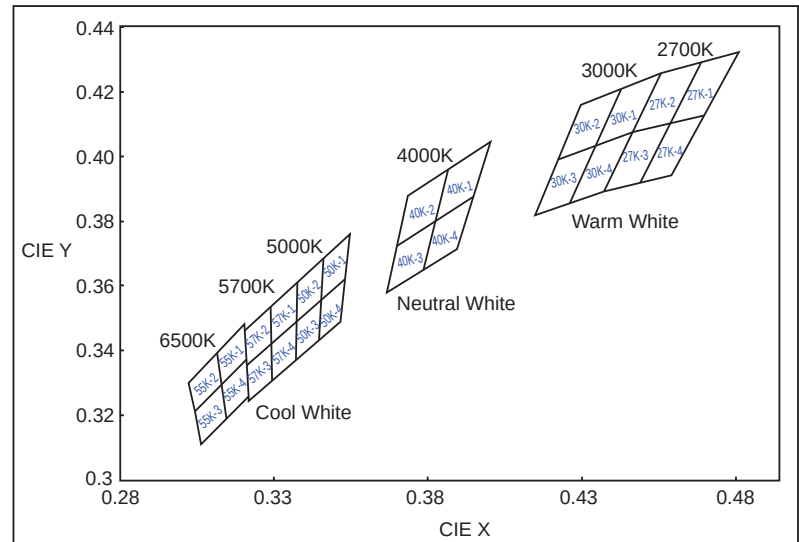
Unit : V (I_F=150mA)

Bin Group	Bin Code	Min.	Max.
B42	B2	35	2.8
		36	2.9
		37	3.0
		38	3.1
		39	3.2
		40	3.3
		41	3.4
		42	3.5

Table of Color Rendering Index

Symbol	Description
M	CRI(Min.) : 60
N	CRI(Min.) : 65
L	CRI(Min.) : 70
Q	CRI(Min.) : 75
K	CRI(Min.) : 80
P	CRI(Min.) : 85
H	CRI(Min.) : 90

Bin Structure



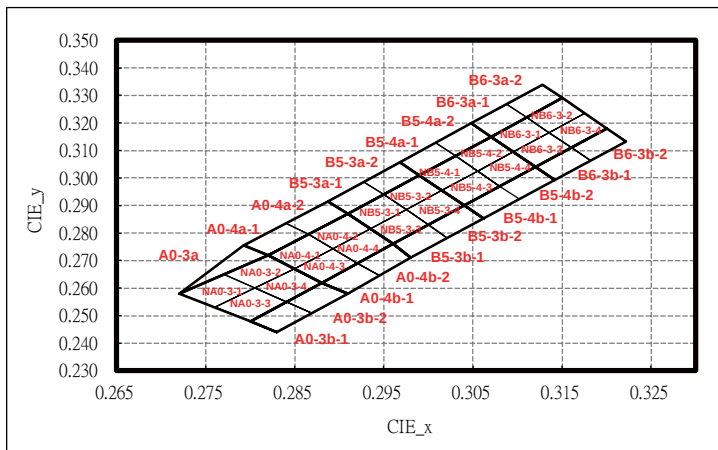
Bin Coordinate

CCT	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y
6500K	65K-1	0.3205	0.3481	65K-3	0.3131	0.3290
		0.3117	0.3393		0.3048	0.3209
		0.3131	0.3290		0.3068	0.3113
		0.3213	0.3371		0.3145	0.3187
	65K-2	0.3117	0.3393	65K-4	0.3213	0.3371
		0.3028	0.3304		0.3131	0.3290
		0.3048	0.3209		0.3145	0.3187
		0.3131	0.3290		0.3221	0.3261
5700K	57K-1	0.3376	0.3616	57K-3	0.3293	0.3423
		0.3292	0.3539		0.3215	0.3353
		0.3293	0.3423		0.3222	0.3243
		0.3371	0.3493		0.3294	0.3306
	57K-2	0.3292	0.3539	57K-4	0.3371	0.3493
		0.3207	0.3462		0.3293	0.3423
		0.3215	0.3353		0.3294	0.3306
		0.3293	0.3423		0.3366	0.3369
5000K	50K-1	0.3551	0.3760	50K-3	0.3452	0.3558
		0.3464	0.3688		0.3371	0.3493
		0.3452	0.3558		0.3366	0.3369
		0.3533	0.3624		0.3441	0.3428
	50K-2	0.3464	0.3688	50K-4	0.3533	0.3624
		0.3376	0.3616		0.3452	0.3558
		0.3371	0.3493		0.3441	0.3428
		0.3452	0.3558		0.3515	0.3487
4000K	40K-1	0.4006	0.4044	40K-3	0.3828	0.3803
		0.3871	0.3959		0.3703	0.3726
		0.3828	0.3803		0.3670	0.3578
		0.3952	0.3880		0.3784	0.3647
	40K-2	0.3871	0.3959	40K-4	0.3952	0.3880
		0.3736	0.3874		0.3828	0.3803
		0.3703	0.3726		0.3784	0.3647
		0.3828	0.3803		0.3898	0.3716
3000K	30K-1	0.4562	0.4260	30K-3	0.4345	0.4033
		0.4431	0.4213		0.4223	0.3990
		0.4345	0.4033		0.4147	0.3814
		0.4468	0.4077		0.4260	0.3854
	30K-2	0.4431	0.4213	30K-4	0.4468	0.4077
		0.4299	0.4165		0.4345	0.4033
		0.4223	0.3990		0.4260	0.3854
		0.4345	0.4033		0.4373	0.3893
2700K	27K-1	0.4813	0.4319	27K-3	0.4585	0.4104
		0.4688	0.4290		0.4468	0.4077
		0.4585	0.4104		0.4373	0.3893
		0.4703	0.4132		0.4483	0.3919
	27K-2	0.4688	0.4290	27K-4	0.4703	0.4132
		0.4562	0.4260		0.4585	0.4104
		0.4468	0.4077		0.4483	0.3919
			0.4104			0.3944

TECHNICAL DATA

SMD LED (99-616, 99-826, 45-21, 50-215 SERIES)
BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y		
NA0-3-1	0.2760	0.2530	NA0-3-2	0.2805	0.2600	NA0-4-1	0.2850	0.2670	NA0-4-2	0.2893	0.2743		
	0.2720	0.2580		0.2770	0.2650		0.2820	0.2720		0.2865	0.2795		
	0.2770	0.2650		0.2820	0.2720		0.2865	0.2795		0.2910	0.2870		
	0.2805	0.2600		0.2850	0.2670		0.2893	0.2743		0.2935	0.2815		
NA0-3-3	0.2800	0.2480	NA0-3-4	0.2840	0.2550	NA0-4-3	0.2880	0.2620	NA0-4-4	0.2920	0.2690		
	0.2760	0.2530		0.2805	0.2600		0.2850	0.2670		0.2893	0.2743		
	0.2805	0.2600		0.2850	0.2670		0.2893	0.2743		0.2935	0.2815		
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760		
A0-3b-1	0.2830	0.2440	A0-3b-2	0.2870	0.2510	A0-4b-1	0.2910	0.2580	A0-4b-2	0.2945	0.2645		
	0.2800	0.2480		0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760		
	0.2870	0.2510		0.2910	0.2580		0.2945	0.2645		0.2980	0.2710		
A0-4a-1	0.2820	0.2720	A0-4a-2	0.2865	0.2795	B5-3a-1	0.2910	0.2870	B5-3a-2	0.2950	0.2940		
	0.2793	0.2755		0.2840	0.2836		0.2887	0.2916		0.2928	0.2987		
	0.2840	0.2836		0.2887	0.2916		0.2928	0.2987		0.2968	0.3058		
	0.2865	0.2795		0.2910	0.2870		0.2950	0.2940		0.2990	0.3010		
A0-3a	0.2720	0.2580				NB5-3-1	0.2935	0.2815	NB5-3-2	0.2975	0.2885		
	0.2793	0.2755					0.2910	0.2870		0.2950	0.2940	0.2990	0.3010
	0.2820	0.2720					0.2950	0.2940		0.2990	0.3010	0.3015	0.2955
	0.2720	0.2580					0.2975	0.2885		0.3015	0.2955	0.3015	0.2955
Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y		
NB5-3-3	0.2960	0.2760	NB5-3-4	0.3000	0.2830	B5-4b-1	0.3062	0.2853	B5-4b-2	0.3102	0.2923		
	0.2935	0.2815		0.2975	0.2885		0.3040	0.2900		0.3080	0.2970		
	0.2975	0.2885		0.3015	0.2955		0.3080	0.2970		0.3120	0.3040		
	0.3000	0.2830		0.3040	0.2900		0.3102	0.2923		0.3142	0.2993		
B5-3b-1	0.2980	0.2710	B5-3b-2	0.3021	0.2782	B6-3a-1	0.3070	0.3150	B6-3a-2	0.3110	0.3220		
	0.2960	0.2760		0.3000	0.2830		0.3048	0.3198		0.3088	0.3268		
	0.3000	0.2830		0.3040	0.2900		0.3088	0.3268		0.3128	0.3338		
	0.3021	0.2782		0.3062	0.2853		0.3110	0.3220		0.3150	0.3290		
B5-4a-1	0.2990	0.3010	B5-4a-2	0.3030	0.3080	NB6-3-1	0.3095	0.3095	NB6-3-2	0.3135	0.3165		
	0.2968	0.3058		0.3008	0.3128		0.3070	0.3150		0.3110	0.3220		
	0.3008	0.3128		0.3048	0.3198		0.3110	0.3220		0.3150	0.3290		
	0.3030	0.3080		0.3070	0.3150		0.3135	0.3165		0.3175	0.3235		
NB5-4-1	0.3015	0.2955	NB5-4-2	0.3055	0.3025	NB6-3-3	0.3120	0.3040	NB6-3-4	0.3160	0.3110		
	0.2990	0.3010		0.3030	0.3080		0.3095	0.3095		0.3135	0.3165		
	0.3030	0.3080		0.3070	0.3150		0.3135	0.3165		0.3175	0.3235		
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180		
NB5-4-3	0.3040	0.2900	NB5-4-4	0.3080	0.2970	B6-3b-1	0.3142	0.2993	B6-3b-2	0.3182	0.3063		
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3160	0.3110		
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180		
	0.3080	0.2970		0.3120	0.3040		0.3182	0.3063		0.3222	0.3133		

Luminous Intensity Groups

Unit : mcd

Bin	Min.	Max.	Bin	Min.	Max.	Bin	Min.	Max.
01	500	600	23	1250	1300	45	2500	2600
02	600	630	24	1300	1350	46	2600	2700
03	630	660	25	1350	1400	47	2700	2800
04	660	690	26	1400	1450	48	2800	2900
05	690	720	27	1450	1500	49	2900	3000
06	720	750	28	1500	1550	50	3000	3100
07	750	780	29	1550	1600	51	3100	3200
08	780	810	30	1600	1650			
09	810	840	31	1650	1700			
10	840	870	32	1700	1750			
11	870	900	33	1750	1800			
12	900	930	34	1800	1850			
13	930	960	35	1850	1900	H42	2200	2250
14	960	990	36	1900	1950	H43	2250	2300
15	990	1020	37	1950	2000	H44	2300	2350
16	1020	1050	38	2000	2050	H45	2350	2400
17	1050	1080	39	2050	2100	H46	2400	2450
18	1080	1110	40	2100	2150	H47	2450	2500
19	1110	1140	41	2150	2200	H48	2500	2550
20	1140	1170	42	2200	2300	H49	2550	2600
21	1170	1200	43	2300	2400	H50	2600	2650
22	1200	1250	44	2400	2500	H51	2650	2700

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

Luminous Flux

Unit : lm

Bin	Min.	Max.
40	4.00	4.25
42	4.25	4.50
45	4.50	4.75
47	4.75	5.00
50	5.00	5.25
52	5.25	5.50
55	5.50	5.75
57	5.75	6.00
60	6.00	6.25
62	6.25	6.50
65	6.50	6.75
67	6.75	7.00
70	7.00	7.25
72	7.25	7.50
75	7.50	7.75
77	7.75	8.00
80	8.00	8.25
82	8.25	8.50

V_F (Forward Voltage Spec. Setup)

Unit : V

Groups								Bin	Min.	Max.	Groups		Bin	Min.	Max.	Groups	Bin	Min.	Max.						
0	1					6	7		D	P	6-1	2.95	3.05	A	G	6-1-1	2.95	3.00	9	6-11	3.00	3.05			
											6-2	3.05	3.15			6-1-2	3.00	3.05		6-2	3.05	3.15			
		2	3	4	5						7	8	7-1			3.15	3.25	6-2-1		3.05	3.10	7-1	3.15	3.25	
													7-2			3.25	3.35	6-2-2		3.10	3.15	7-2	3.25	3.35	
													8-1			3.35	3.45	7-1-1		3.15	3.20	8-1	3.35	3.45	
							8-2	3.45			3.55	7-1-2	3.20			3.25	8-11	3.45		3.50					
											9-1	3.55	3.65			7-2-1	3.25	3.30							
											9-2	3.65	3.75			7-2-2	3.30	3.35							
																8-1-1	3.35	3.40							
																8-1-2	3.40	3.45							

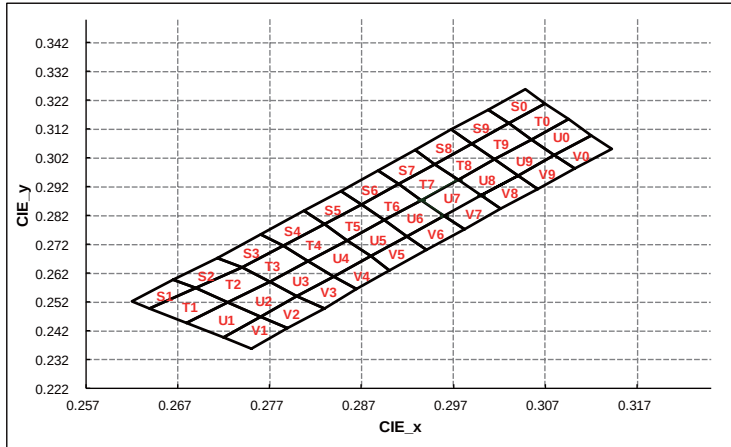
Groups											Bin	Min.	Max.		
W	S										Y	4-2-3	2.7	2.8	
												5-1-3	2.8	2.9	
												5-2-3	2.9	3.0	
												6-1-3	3.0	3.1	
												6-2-3	3.1	3.2	
												7-1-3	3.2	3.3	
												7-2-3	3.3	3.4	
												8-1-3	3.4	3.5	

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

SMD LED (99-713 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
S1	0.2665	0.2600	S2	0.2713	0.2675	S3	0.2740	0.2640	S4	0.2785	0.2715	S5	0.2830	0.2790
	0.2690	0.2570		0.2740	0.2640		0.2713	0.2675		0.2760	0.2756		0.2807	0.2836
	0.2640	0.2500		0.2690	0.2570		0.2760	0.2756		0.2807	0.2836		0.2848	0.2907
	0.2620	0.2525		0.2665	0.2600		0.2785	0.2715		0.2830	0.2790		0.2870	0.2860
T1	0.2680	0.2450	T2	0.2725	0.2520	T3	0.2770	0.2590	T4	0.2813	0.2663	T5	0.2855	0.2735
	0.2640	0.2500		0.2690	0.2570		0.2740	0.2640		0.2785	0.2715		0.2830	0.2790
	0.2690	0.2570		0.2740	0.2640		0.2785	0.2715		0.2830	0.2790		0.2870	0.2860
	0.2725	0.2520		0.2770	0.2590		0.2813	0.2663		0.2855	0.2735		0.2895	0.2805
U1	0.2720	0.2400	U2	0.2760	0.2470	U3	0.2800	0.2540	U4	0.2840	0.2610	U5	0.2880	0.2680
	0.2680	0.2450		0.2725	0.2520		0.2770	0.2590		0.2813	0.2663		0.2855	0.2735
	0.2725	0.2520		0.2770	0.2590		0.2813	0.2663		0.2855	0.2735		0.2895	0.2805
	0.2760	0.2470		0.2800	0.2540		0.2840	0.2610		0.2880	0.2680		0.2920	0.2750
V1	0.2750	0.2360	V2	0.2790	0.2430	V3	0.2830	0.2500	V4	0.2865	0.2565	V5	0.2900	0.2630
	0.2720	0.2400		0.2760	0.2470		0.2800	0.2540		0.2840	0.2610		0.2880	0.2680
	0.2760	0.2470		0.2800	0.2540		0.2840	0.2610		0.2880	0.2680		0.2920	0.2750
	0.2790	0.2430		0.2830	0.2500		0.2865	0.2565		0.2900	0.2630		0.2941	0.2702
Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
S6	0.2870	0.2860	S7	0.2910	0.2930	S8	0.2950	0.3000	S9	0.2990	0.3070	S0	0.3030	0.3140
	0.2848	0.2907		0.2888	0.2978		0.2928	0.3048		0.2968	0.3118		0.3008	0.3188
	0.2888	0.2978		0.2928	0.3048		0.2968	0.3118		0.3008	0.3188		0.3048	0.3258
	0.2910	0.2930		0.2950	0.3000		0.2990	0.3070		0.3030	0.3140		0.3070	0.3210
T6	0.2895	0.2805	T7	0.2935	0.2875	T8	0.2975	0.2945	T9	0.3015	0.3015	T0	0.3055	0.3085
	0.2870	0.2860		0.2910	0.2930		0.2950	0.3000		0.2990	0.3070		0.3030	0.3140
	0.2910	0.2930		0.2950	0.3000		0.2990	0.3070		0.3030	0.3140		0.3070	0.3210
	0.2935	0.2875		0.2975	0.2945		0.3015	0.3015		0.3055	0.3085		0.3095	0.3155
U6	0.2920	0.2750	U7	0.2960	0.2820	U8	0.3000	0.2890	U9	0.3040	0.2960	U0	0.3080	0.3030
	0.2895	0.2805		0.2935	0.2875		0.2975	0.2945		0.3015	0.3015		0.3055	0.3085
	0.2935	0.2875		0.2975	0.2945		0.3015	0.3015		0.3055	0.3085		0.3095	0.3155
	0.2960	0.2820		0.3000	0.2890		0.3040	0.2960		0.3080	0.3030		0.3120	0.3100
V6	0.2941	0.2702	V7	0.2982	0.2773	V8	0.3000	0.2890	V9	0.3062	0.2913	V0	0.3102	0.2983
	0.2920	0.2750		0.2960	0.2820		0.3040	0.2960		0.3040	0.2960		0.3080	0.3030
	0.2960	0.2820		0.3000	0.2890		0.3062	0.2913		0.3080	0.3030		0.3120	0.3100
	0.2982	0.2773		0.3022	0.2843		0.3022	0.2843		0.3102	0.2983		0.3142	0.3053

Luminous Intensity Groups

Unit : mcd

Bin	Min.	Max.	Bin	Min.	Max.	Bin	Min.	Max.
01	500	600	1	0	50	45	0	100
02	600	630	2	50	100	46	100	200
03	630	660	3	100	150	47	200	300
04	660	690	4	150	200	48	300	400
05	690	720	5	200	250	49	400	500
06	720	750	28	250	300	50	500	600
07	750	780	29	300	350	51	600	700
08	780	810	30	350	400	52	700	800
09	810	840	31	400	450	H40	2100	2150
10	840	870	32	450	500	H41	2150	2200
11	870	900	33	500	550	H42	2200	2250
12	900	930	34	550	600	H43	2250	2300
13	930	960	35	600	650	H44	2300	2350
14	960	990	36	650	700	H45	2350	2400
15	990	1020	37	700	750	H46	2400	2450
16	1020	1050	38	750	800	H47	2450	2500
17	1050	1080	39	800	850	H48	2500	2550
18	1080	1110	40	850	900	H49	2550	2600
19	1110	1140	41	900	950	H50	2600	2650
20	1140	1170	42	950	1050	H51	2650	2700
21	1170	1200	43	1050	1150	H52	2700	2750

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

Luminous Flux

Unit : lm

Bin	Min.	Max.
40	4.00	4.25
42	4.25	4.50
45	4.50	4.75
47	4.75	5.00
50	5.00	5.25
52	5.25	5.50
55	5.50	5.75
57	5.75	6.00
60	6.00	6.25
62	6.25	6.50
65	6.50	6.75
67	6.75	7.00
70	7.00	7.25
72	7.25	7.50
75	7.50	7.75
77	7.75	8.00
80	8.00	8.25
82	8.25	8.50

V_F (Forward Voltage Spec. Setup)

Unit : V

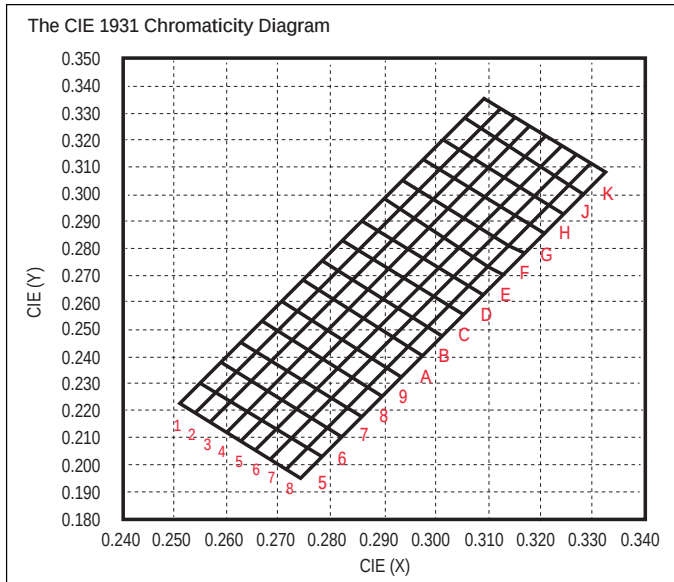
Bin	Min.	Max.
A	2.70	2.75
B	2.75	2.80
C	2.80	2.85
D	2.85	2.90
E	2.90	2.95
F	2.95	3.00
G	3.00	3.05
H	3.05	3.10
I	3.10	3.15
J	3.15	3.20
K	3.20	3.25
L	3.25	3.30
M	3.30	3.35
N	3.35	3.40
O	3.40	3.45
P	3.45	3.50
Q	3.50	3.55
R	3.55	3.60
S	3.60	3.65
T	3.65	3.70
U	3.70	3.75
V	3.75	3.80

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

SMD LED (50-315 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
A1	0.2731	0.2569	B1	0.2770	0.2644	C1	0.2809	0.2719
	0.2702	0.2603		0.2741	0.2678		0.2780	0.2753
	0.2741	0.2678		0.2780	0.2753		0.2819	0.2828
	0.2770	0.2644		0.2809	0.2719		0.2848	0.2794
A2	0.2760	0.2535	B2	0.2799	0.2610	C2	0.2838	0.2685
	0.2731	0.2569		0.2770	0.2644		0.2809	0.2719
	0.2770	0.2644		0.2809	0.2719		0.2848	0.2794
	0.2799	0.2610		0.2838	0.2685		0.2877	0.2760
A3	0.2789	0.2501	B3	0.2828	0.2576	C3	0.2867	0.2651
	0.2760	0.2535		0.2799	0.2610		0.2838	0.2685
	0.2799	0.2610		0.2838	0.2685		0.2877	0.2760
	0.2828	0.2576		0.2867	0.2651		0.2906	0.2726
A4	0.2818	0.2467	B4	0.2856	0.2539	C4	0.2895	0.2614
	0.2789	0.2501		0.2828	0.2576		0.2867	0.2651
	0.2828	0.2576		0.2867	0.2651		0.2906	0.2726
	0.2856	0.2539		0.2895	0.2614		0.2934	0.2689
A5	0.2847	0.2433	B5	0.2885	0.2505	C5	0.2924	0.2580
	0.2818	0.2467		0.2856	0.2539		0.2895	0.2614
	0.2856	0.2539		0.2895	0.2614		0.2934	0.2689
	0.2885	0.2505		0.2924	0.2580		0.2963	0.2655
A6	0.2876	0.2399	B6	0.2915	0.2474	C6	0.2954	0.2549
	0.2847	0.2433		0.2885	0.2505		0.2924	0.2580
	0.2885	0.2505		0.2924	0.2580		0.2963	0.2655
	0.2915	0.2474		0.2954	0.2549		0.2992	0.2621
A7	0.2905	0.2365	B7	0.2944	0.2440	C7	0.2983	0.2515
	0.2876	0.2399		0.2915	0.2474		0.2954	0.2549
	0.2915	0.2474		0.2954	0.2549		0.2992	0.2621
	0.2944	0.2440		0.2983	0.2515		0.3021	0.2587
A8	0.2934	0.2331	B8	0.2973	0.2406	C8	0.3012	0.2481
	0.2905	0.2365		0.2944	0.2440		0.2983	0.2515
	0.2944	0.2440		0.2983	0.2515		0.3021	0.2587
	0.2973	0.2406		0.3012	0.2481		0.3051	0.2556

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
D1	0.2848	0.2794	E1	0.2887	0.2869	F1	0.2926	0.2944	G1	0.2965	0.3019	H1	0.3004	0.3094	J1	0.3043	0.3169
	0.2819	0.2828		0.2858	0.2903		0.2897	0.2978		0.2936	0.3053		0.2975	0.3128		0.3014	0.3203
	0.2858	0.2903		0.2897	0.2978		0.2936	0.3053		0.2975	0.3128		0.3014	0.3203		0.3053	0.3278
	0.2887	0.2869		0.2926	0.2944		0.2965	0.3019		0.3004	0.3094		0.3043	0.3169		0.3082	0.3244
D2	0.2877	0.2760	E2	0.2916	0.2835	F2	0.2955	0.2910	G2	0.2994	0.2985	H2	0.3033	0.3060	J2	0.3072	0.3135
	0.2848	0.2794		0.2887	0.2869		0.2926	0.2944		0.2965	0.3019		0.3004	0.3094		0.3043	0.3169
	0.2887	0.2869		0.2926	0.2944		0.2965	0.3019		0.3004	0.3094		0.3043	0.3169		0.3082	0.3244
	0.2916	0.2835		0.2955	0.2910		0.2994	0.2985		0.3033	0.3060		0.3072	0.3135		0.3111	0.3210
D3	0.2906	0.2726	E3	0.2945	0.2801	F3	0.2984	0.2876	G3	0.3023	0.2951	H3	0.3062	0.3026	J3	0.3101	0.3101
	0.2877	0.2760		0.2916	0.2835		0.2955	0.2910		0.2994	0.2985		0.3033	0.3060		0.3072	0.3135
	0.2916	0.2835		0.2955	0.2910		0.2994	0.2985		0.3033	0.3060		0.3072	0.3135		0.3111	0.3210
	0.2945	0.2801		0.2984	0.2876		0.3023	0.2951		0.3062	0.3026		0.3101	0.3101		0.3140	0.3176
D4	0.2934	0.2689	E4	0.2973	0.2764	F4	0.3012	0.2839	G4	0.3051	0.2914	H4	0.3090	0.2989	J4	0.3129	0.3064
	0.2906	0.2726		0.2945	0.2801		0.2984	0.2876		0.3023	0.2951		0.3062	0.3026		0.3101	0.3101
	0.2945	0.2801		0.2984	0.2876		0.3023	0.2951		0.3062	0.3026		0.3101	0.3101		0.3140	0.3176
	0.2973	0.2764		0.3012	0.2839		0.3051	0.2914		0.3090	0.2989		0.3129	0.3064		0.3168	0.3139
D5	0.2963	0.2655	E5	0.3002	0.2730	F5	0.3041	0.2805	G5	0.3080	0.2880	H5	0.3119	0.2955	J5	0.3158	0.3030
	0.2934	0.2689		0.2973	0.2764		0.3012	0.2839		0.3051	0.2914		0.3090	0.2989		0.3129	0.3064
	0.2973	0.2764		0.3012	0.2839		0.3051	0.2914		0.3090	0.2989		0.3129	0.3064		0.3168	0.3139
	0.3002	0.2730		0.3041	0.2805		0.3080	0.2880		0.3119	0.2955		0.3158	0.3030		0.3197	0.3105
D6	0.2992	0.2621	E6	0.3031	0.2696	F6	0.3070	0.2771	G6	0.3109	0.2846	H6	0.3148	0.2921	J6	0.3187	0.2996
	0.2963	0.2655		0.3002	0.2730		0.3041	0.2805		0.3080	0.2880		0.3119	0.2955		0.3158	0.3030
	0.3002	0.2730		0.3041	0.2805		0.3080	0.2880		0.3119	0.2955		0.3158	0.3030		0.3197	0.3105
	0.3031	0.2696		0.3070	0.2771		0.3109	0.2846		0.3148	0.2921		0.3187	0.2996		0.3226	0.3071
D7	0.3021	0.2587	E7	0.3060	0.2662	F7	0.3099	0.2737	G7	0.3138	0.2812	H7	0.3177	0.2887	J7	0.3216	0.2962
	0.2992	0.2621		0.3031	0.2696		0.3070	0.2771		0.3109	0.2846		0.3148	0.2921		0.3187	0.2996
	0.3031	0.2696		0.3070	0.2771		0.3109	0.2846		0.3148	0.2921		0.3187	0.2996		0.3226	0.3071
	0.3060	0.2662		0.3099	0.2737		0.3138	0.2812		0.3177	0.2887		0.3216	0.2962		0.3255	0.3037
D8	0.3051	0.2556	E8	0.3090	0.2631	F8	0.3129	0.2706	G8	0.3168	0.2781	H8	0.3207	0.2856	J8	0.3246	0.2931
	0.3021	0.2587		0.3060	0.2662		0.3099	0.2737		0.3138	0.2812		0.3177	0.2887		0.3216	0.2962
	0.3060	0.2662		0.3099	0.2737		0.3138	0.2812		0.3177	0.2887		0.3216	0.2962		0.3255	0.3037
	0.3090	0.2631		0.3129	0.2706		0.3168	0.2781		0.3207	0.2856		0.3246	0.2931		0.3285	0.3006

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
51	0.2507	0.2228	61	0.2575	0.2269	71	0.2585	0.2378	81	0.2653	0.2419	91	0.2692	0.2494
	0.2536	0.2194		0.2546	0.2303		0.2614	0.2344		0.2624	0.2453		0.2663	0.2528
	0.2575	0.2269		0.2585	0.2378		0.2653	0.2419		0.2663	0.2528		0.2702	0.2603
	0.2546	0.2303		0.2614	0.2344		0.2624	0.2453		0.2692	0.2494		0.2731	0.2569
52	0.2536	0.2194	62	0.2604	0.2235	72	0.2614	0.2344	82	0.2682	0.2385	92	0.2721	0.2460
	0.2565	0.2160		0.2575	0.2269		0.2643	0.2310		0.2653	0.2419		0.2692	0.2494
	0.2604	0.2235		0.2614	0.2344		0.2682	0.2385		0.2692	0.2494		0.2731	0.2569
	0.2575	0.2269		0.2643	0.2310		0.2653	0.2419		0.2721	0.2460		0.2760	0.2535
53	0.2565	0.2160	63	0.2633	0.2201	73	0.2643	0.2310	83	0.2711	0.2351	93	0.2750	0.2426
	0.2594	0.2126		0.2604	0.2235		0.2672	0.2276		0.2682	0.2385		0.2721	0.2460
	0.2633	0.2201		0.2643	0.2310		0.2711	0.2351		0.2721	0.2460		0.2760	0.2535
	0.2604	0.2235		0.2672	0.2276		0.2682	0.2385		0.2750	0.2426		0.2789	0.2501
54	0.2594	0.2126	64	0.2662	0.2167	74	0.2672	0.2276	84	0.2740	0.2317	94	0.2779	0.2392
	0.2623	0.2092		0.2633	0.2201		0.2701	0.2242		0.2711	0.2351		0.2750	0.2426
	0.2662	0.2167		0.2672	0.2276		0.2740	0.2317		0.2750	0.2426		0.2789	0.2501
	0.2633	0.2201		0.2701	0.2242		0.2711	0.2351		0.2779	0.2392		0.2818	0.2467
55	0.2623	0.2092	65	0.2691	0.2133	75	0.2701	0.2242	85	0.2769	0.2283	95	0.2808	0.2358
	0.2652	0.2058		0.2662	0.2167		0.2730	0.2208		0.2740	0.2317		0.2779	0.2392
	0.2691	0.2133		0.2701	0.2242		0.2769	0.2283		0.2779	0.2392		0.2818	0.2467
	0.2662	0.2167		0.2730	0.2208		0.2740	0.2317		0.2808	0.2358		0.2847	0.2433
56	0.2652	0.2058	66	0.2720	0.2099	76	0.2730	0.2208	86	0.2798	0.2249	96	0.2837	0.2324
	0.2681	0.2024		0.2691	0.2133		0.2759	0.2174		0.2769	0.2283		0.2808	0.2358
	0.2720	0.2099		0.2730	0.2208		0.2798	0.2249		0.2808	0.2358		0.2847	0.2433
	0.2691	0.2133		0.2759	0.2174		0.2769	0.2283		0.2837	0.2324		0.2876	0.2399
57	0.2681	0.2024	67	0.2749	0.2065	77	0.2759	0.2174	87	0.2827	0.2215	97	0.2866	0.2290
	0.2710	0.1990		0.2720	0.2099		0.2788	0.2140		0.2798	0.2249		0.2837	0.2324
	0.2749	0.2065		0.2759	0.2174		0.2827	0.2215		0.2837	0.2324		0.2876	0.2399
	0.2720	0.2099		0.2788	0.2140		0.2798	0.2249		0.2866	0.2290		0.2905	0.2365
58	0.2710	0.1990	68	0.2778	0.2031	78	0.2788	0.2140	88	0.2856	0.2181	98	0.2895	0.2256
	0.2739	0.1956		0.2749	0.2065		0.2817	0.2106		0.2827	0.2215		0.2866	0.2290
	0.2778	0.2031		0.2788	0.2140		0.2856	0.2181		0.2866	0.2290		0.2905	0.2365
	0.2749	0.2065		0.2817	0.2106		0.2827	0.2215		0.2895	0.2256		0.2934	0.2331

Luminous Flux

Unit : lm

Bin	Min.	Max.
L11	11.00	12.00
L12	12.00	13.00
L13	13.00	14.00
L14	14.00	15.00
L15	15.00	16.00
L16	16.00	17.00
L17	17.00	18.00
L18	18.00	19.00
L19	19.00	20.00
L20	20.00	21.00
L21	21.00	22.00

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

V_F (Forward Voltage Spec. Setup)

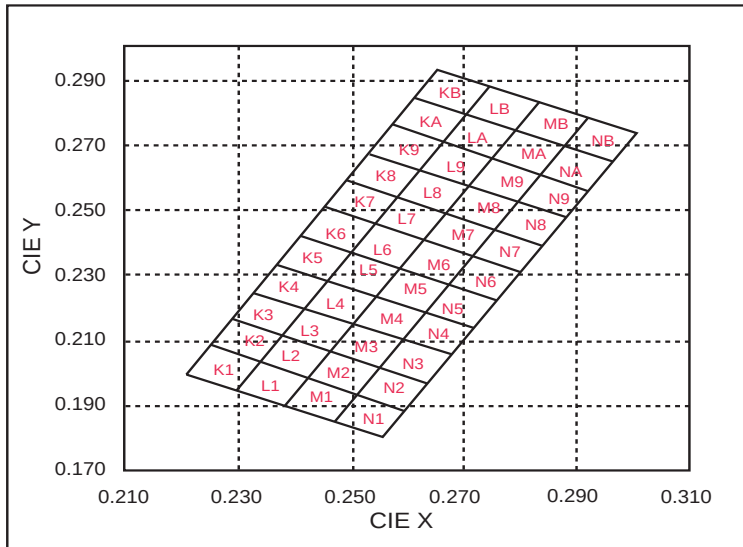
Unit : V

Groups					Bin	Min.	Max.	
					Y	4-2-3	2.7	2.8
						5-1-3	2.8	2.9
K	H	E				5-2-3	2.9	3.0
						6-1-3	3.0	3.1
			Q	F		6-2-3	3.1	3.2
						7-1-3	3.2	3.3
					7-2-3	3.3	3.4	

TECHNICAL DATA

SMD LED (62 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
KY	0.2165	0.1914	KZ	0.2206	0.1998	K1	0.2247	0.2082	K2	0.2288	0.2166	K3	0.2329	0.2250	K4	0.2457	0.2287	K5	0.2410	0.2419
	0.2124	0.1829		0.2165	0.1913		0.2206	0.1997		0.2247	0.2082		0.2288	0.2166		0.2416	0.2202		0.2370	0.2335
	0.2211	0.1781		0.2252	0.1865		0.2293	0.1949		0.2334	0.2034		0.2375	0.2118		0.2329	0.2250		0.2457	0.2288
	0.2252	0.1866		0.2293	0.1950		0.2334	0.2034		0.2375	0.2118		0.2416	0.2202		0.2370	0.2335		0.2497	0.2371
LY	0.2252	0.1866	LZ	0.2293	0.1950	L1	0.2334	0.2034	L2	0.2375	0.2118	L3	0.2416	0.2202	L4	0.2544	0.2239	L5	0.2497	0.2371
	0.2211	0.1781		0.2252	0.1865		0.2293	0.1949		0.2334	0.2034		0.2375	0.2118		0.2503	0.2154		0.2457	0.2287
	0.2298	0.1733		0.2339	0.1817		0.2380	0.1901		0.2421	0.1986		0.2462	0.2070		0.2416	0.2202		0.2544	0.2239
	0.2339	0.1818		0.2380	0.1902		0.2421	0.1986		0.2462	0.2070		0.2503	0.2154		0.2457	0.2287		0.2584	0.2323
MY	0.2339	0.1818	MZ	0.2380	0.1902	M1	0.2421	0.1986	M2	0.2462	0.2070	M3	0.2503	0.2154	M4	0.2631	0.2191	M5	0.2584	0.2323
	0.2298	0.1733		0.2339	0.1817		0.2380	0.1901		0.2421	0.1986		0.2462	0.2070		0.2590	0.2106		0.2544	0.2239
	0.2385	0.1685		0.2426	0.1769		0.2467	0.1853		0.2508	0.1938		0.2549	0.2022		0.2503	0.2154		0.2631	0.2191
	0.2426	0.1770		0.2467	0.1854		0.2508	0.1938		0.2549	0.2022		0.2590	0.2106		0.2544	0.2239		0.2671	0.2275
NY	0.2426	0.1770	NZ	0.2467	0.1854	N1	0.2508	0.1938	N2	0.2549	0.2022	N3	0.2590	0.2106	N4	0.2718	0.2143	N5	0.2671	0.2275
	0.2385	0.1685		0.2426	0.1769		0.2467	0.1853		0.2508	0.1938		0.2549	0.2022		0.2677	0.2058		0.2631	0.2191
	0.2472	0.1637		0.2513	0.1721		0.2554	0.1805		0.2595	0.1890		0.2636	0.1974		0.2590	0.2106		0.2718	0.2143
	0.2513	0.1722		0.2554	0.1806		0.2595	0.1890		0.2636	0.1974		0.2677	0.2058		0.2631	0.2191		0.2758	0.2227

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K6	0.2451	0.2504	K7	0.2492	0.2588	K8	0.2533	0.2672	K9	0.2574	0.2757	KA	0.2615	0.2842	KB	0.2656	0.2927
	0.2410	0.2419		0.2451	0.2504		0.2492	0.2588		0.2533	0.2672		0.2574	0.2757		0.2615	0.2842
	0.2497	0.2371		0.2538	0.2456		0.2579	0.2540		0.2620	0.2624		0.2661	0.2709		0.2702	0.2794
	0.2538	0.2456		0.2579	0.2540		0.2620	0.2624		0.2661	0.2709		0.2702	0.2794		0.2743	0.2879
L6	0.2538	0.2456	L7	0.2579	0.2540	L8	0.2620	0.2624	L9	0.2661	0.2709	LA	0.2702	0.2794	LB	0.2743	0.2879
	0.2497	0.2371		0.2538	0.2456		0.2579	0.2540		0.2620	0.2624		0.2661	0.2709		0.2702	0.2794
	0.2584	0.2323		0.2625	0.2408		0.2666	0.2492		0.2707	0.2576		0.2748	0.2661		0.2789	0.2746
	0.2625	0.2408		0.2666	0.2492		0.2707	0.2576		0.2748	0.2661		0.2789	0.2746		0.2830	0.2831
M6	0.2625	0.2408	M7	0.2666	0.2492	M8	0.2707	0.2576	M9	0.2748	0.2661	MA	0.2789	0.2746	MB	0.2830	0.2831
	0.2584	0.2323		0.2625	0.2408		0.2666	0.2492		0.2707	0.2576		0.2748	0.2661		0.2789	0.2746
	0.2671	0.2275		0.2712	0.2360		0.2753	0.2444		0.2794	0.2528		0.2835	0.2613		0.2876	0.2698
	0.2712	0.2360		0.2753	0.2444		0.2794	0.2528		0.2835	0.2613		0.2876	0.2698		0.2917	0.2783
N6	0.2712	0.2360	N7	0.2753	0.2444	N8	0.2794	0.2528	N9	0.2835	0.2613	NA	0.2876	0.2698	NB	0.2917	0.2783
	0.2671	0.2275		0.2712	0.2360		0.2753	0.2444		0.2794	0.2528		0.2835	0.2613		0.2876	0.2698
	0.2758	0.2227		0.2799	0.2312		0.2840	0.2396		0.2881	0.2480		0.2922	0.2565		0.2963	0.2650
	0.2799	0.2312		0.2840	0.2396		0.2881	0.2480		0.2922	0.2565		0.2963	0.2650		0.3004	0.2735

Luminous Flux

Unit : lm

1 lm / Bin									2 lm / Bin					
Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
18	18	19	18	18	19	18	18	19	T18	18	20	T50	50	52
19	19	20	19	19	20	19	19	20	T20	20	22	T52	52	54
20	20	21	20	20	21	20	20	21	T22	22	24	T54	54	56
21	21	22	21	21	22	21	21	22	T24	24	26	T56	56	58
22	22	23	22	22	23	22	22	23	T26	26	28	T58	58	60
23	23	24	23	23	24	23	23	24	T28	28	30	T60	60	62
24	24	25	24	24	25	24	24	25	T30	30	32	T62	62	64
25	25	26	25	25	26	25	25	26	T32	32	34	T64	64	66
26	26	27	26	26	27	26	26	27	T34	34	36	T66	66	68
27	27	28	27	27	28	27	27	28	T36	36	38	T68	68	70
28	28	29	28	28	29	28	28	29	T38	38	40	T70	70	72
29	29	30	29	29	30	29	29	30	T40	40	42	T72	72	74
30	30	31	30	30	31	30	30	31	T42	42	44	T74	74	76
31	31	32	31	31	32	31	31	32	T44	44	46	T76	76	78
32	32	33	32	32	33	32	32	33	T46	46	48	T78	78	80
33	33	34	33	33	34	33	33	34	T48	48	50	T80	80	82

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

V_F (Forward Voltage Spec. Setup)

Unit : V

Single Chip			Two Chips					
			Parallel			Serial		
Bin	Min.	Max.	Bin	Min.	Max.	Bin	Min.	Max.
A	2.9	3.0	PA	2.9	3.0	S8	5.8	6.0
B	3.0	3.1	PB	3.0	3.1	S9	6.0	6.2
C	3.1	3.2	PC	3.1	3.2	SA	6.2	6.4
D	3.2	3.3	PD	3.2	3.3	SB	6.4	6.6
E	3.3	3.4	PE	3.3	3.4	SC	6.6	6.8
F	3.4	3.5	PF	3.4	3.5	SD	6.8	7.0
G	3.5	3.6	PG	3.5	3.6	SE	7.0	7.2

Note: Tolerance of Forward Voltage: $\pm 0.05V$.

TECHNICAL DATA

AUTOMOTIVE LED : HIGH POWER LED (EHP-A09K) BINNING RANKS

Color Bins

Group	Bin	Minimum Dominant Wavelength (nm)	Maximum Dominant Wavelength (nm)	Condition
Red	1	616	619	$I_F = 150\text{mA}$
	2	619	622	
	3	622	625	
	4	625	628	
Yellow	1	583	586	
	2	586	589	
	3	589	592	
	4	592	595	
Green	1	516	519	
	2	519	522	
	3	522	525	
	4	525	528	
Blue	1	448	451	
	2	451	454	
	3	454	457	
	4	457	460	
	5	460	464	
	6	464	467	

Bin Range of Forward Voltage

Group	Min.	Max.	Unit	Condition
1	1.70	1.85	V	$I_F = 150\text{mA}$
2	1.85	2.00		
3	2.00	2.15		
4	2.15	2.30		
5	2.30	2.45		
6	2.45	2.60		
7	2.60	2.75		
8	2.75	2.90		
9	2.90	3.05		
10	3.05	3.20		
11	3.20	3.35		
12	3.35	3.50		
13	3.50	3.65		
14	3.65	3.80		
15	3.80	3.95		
16	3.95	4.10		
17	4.10	4.25		

Bin Code of Luminous Intensity

Group	Min.	Max.	Unit	Condition
V2	900	1120	mcd	$I_F = 150\text{mA}$
AA	1120	1400		
AB	1400	1800		
BA	1800	2240		
BB	2240	2800		
CA	2800	3550		
CB	3550	4500		
DA	4500	5600		
DB	5600	7100		
EA	7100	9000		

Note:

1. The standard shipping format for serial types includes a family bin of 3 individual brightness bins. Individual brightness bins cannot be ordered.
2. Only one bin will be shipped on each reel (there will be no mixing of two bins on each reel).

Cool White & Warm White Bin Code of Luminous Intensity

Group	Min.	Max.	Unit	Condition
CB	3550	4500	mcd	$I_F = 150\text{mA}$
DA	4500	5600		
DB	5600	7100		
EA	7100	9000		

Note:

1. The standard shipping format for serial types includes a family bin of 3 individual brightness bins. Individual brightness bins cannot be ordered.
2. Only one bin will be shipped on each reel (there will be no mixing of two bin on each reel).

AUTOMOTIVE LED : HIGH POWER LED (EHP-A09K)

CIE BINNING RANKS

Cool White (Production Spec)

4500~5000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
U4	0.364	0.383	U7	0.344	0.344	I _F = 150mA
	0.367	0.400		0.343	0.331	
	0.348	0.385		0.357	0.343	
	0.347	0.372		0.360	0.357	
U5	0.364	0.383	U8	0.342	0.320	
	0.362	0.372		0.343	0.331	
	0.346	0.359		0.357	0.343	
	0.347	0.372		0.355	0.330	
U6	0.362	0.372	U9	0.342	0.320	
	0.360	0.357		0.355	0.330	
	0.344	0.344		0.353	0.315	
	0.346	0.359		0.341	0.305	

4500~5000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
V4	0.329	0.357	V7	0.329	0.331	I _F = 150mA
	0.329	0.369		0.344	0.344	
	0.348	0.385		0.343	0.331	
	0.347	0.372		0.329	0.320	
V5	0.329	0.345	V8	0.343	0.331	
	0.329	0.357		0.329	0.320	
	0.347	0.372		0.329	0.310	
	0.346	0.359		0.342	0.320	
V6	0.329	0.331	V9	0.329	0.310	
	0.329	0.345		0.342	0.320	
	0.346	0.359		0.341	0.305	
	0.344	0.344		0.330	0.300	

5650~6300K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
W4	0.329	0.369	W7	0.329	0.331	I _F = 150mA
	0.329	0.357		0.329	0.320	
	0.315	0.344		0.318	0.310	
	0.314	0.355		0.317	0.320	
W5	0.329	0.345	W8	0.329	0.321	
	0.316	0.333		0.329	0.310	
	0.315	0.344		0.319	0.300	
	0.329	0.357		0.318	0.310	
W6	0.329	0.345	W9	0.321	0.290	
	0.329	0.331		0.330	0.300	
	0.317	0.320		0.329	0.310	
	0.316	0.333		0.319	0.300	

6300~7000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
X4	0.301	0.342	X7	0.308	0.311	I _F = 150mA
	0.314	0.355		0.317	0.320	
	0.315	0.344		0.319	0.300	
	0.303	0.333		0.311	0.293	
X5	0.305	0.322	X8	0.321	0.290	
	0.303	0.333		0.319	0.300	
	0.315	0.344		0.311	0.293	
	0.316	0.333		0.313	0.285	
X6	0.308	0.311				
	0.305	0.322				
	0.316	0.333				
	0.317	0.320				

7000~8000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
Y3-3	0.290	0.318	Y9-3	0.308	0.311	I _F = 150mA
	0.303	0.333		0.311	0.293	
	0.301	0.342		0.290	0.270	
	0.286	0.333		0.283	0.284	
Y6-3	0.308	0.311	Y1-3	0.302	0.283	
	0.283	0.284		0.311	0.293	
	0.274	0.301		0.313	0.285	
	0.303	0.333		0.305	0.273	

8000~9000K

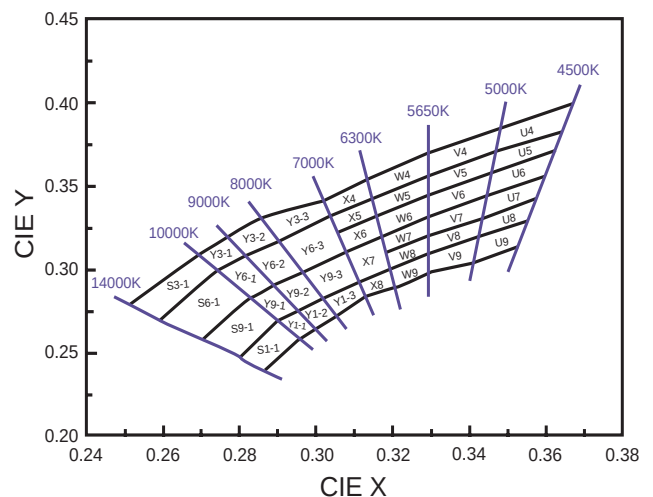
Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
Y3-2	0.281	0.309	Y9-2	0.308	0.311	I _F = 150mA
	0.290	0.318		0.283	0.284	
	0.286	0.333		0.274	0.301	
	0.276	0.321		0.303	0.333	
Y6-2	0.302	0.283	Y1-2	0.299	0.265	
	0.311	0.293		0.295	0.276	
	0.313	0.285		0.302	0.283	
	0.305	0.273		0.305	0.273	

9000~10000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
Y3-1	0.274	0.301	Y9-1	0.290	0.270	I _F = 150mA
	0.281	0.309		0.283	0.284	
	0.276	0.321		0.289	0.291	
	0.269	0.309		0.295	0.276	
Y6-1	0.283	0.284	Y1-1	0.295	0.276	
	0.274	0.301		0.299	0.265	
	0.281	0.309		0.295	0.259	
	0.289	0.291		0.290	0.270	

10000~14000K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
S3-1	0.259	0.270	S9-1	0.270	0.260	I _F = 150mA
	0.274	0.301		0.283	0.284	
	0.269	0.309		0.290	0.270	
	0.251	0.280		0.280	0.248	
S6-1	0.274	0.301	S1-1	0.280	0.248	
	0.283	0.284		0.290	0.270	
	0.270	0.260		0.295	0.259	
	0.259	0.270		0.286	0.240	



TECHNICAL DATA

AUTOMOTIVE LED : HIGH POWER LED (EHP-A09K) CIE BINNING RANKS

Warm White (Production Spec)

2760~2850K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
M4	0.471	0.451	M7	0.444	0.399	I _F = 150mA
	0.487	0.454		0.458	0.403	
	0.477	0.437		0.449	0.388	
	0.461	0.433		0.436	0.384	
M5	0.461	0.433	M8	0.423	0.358	
	0.477	0.437		0.435	0.383	
	0.467	0.420		0.449	0.388	
	0.453	0.416		0.434	0.359	
M6	0.453	0.416	M9	0.411	0.334	
	0.467	0.420		0.423	0.358	
	0.458	0.403		0.434	0.359	
	0.444	0.399		0.421	0.334	

3500~3800K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
R4	0.402	0.423	R7	0.387	0.374	I _F = 150mA
	0.421	0.433		0.402	0.382	
	0.415	0.416		0.397	0.367	
	0.396	0.404		0.383	0.360	
R5	0.396	0.404	R8	0.378	0.343	
	0.415	0.416		0.382	0.359	
	0.409	0.400		0.396	0.367	
	0.392	0.391		0.390	0.349	
R6	0.392	0.391	R9	0.373	0.327	
	0.409	0.400		0.378	0.343	
	0.402	0.382		0.390	0.349	
	0.387	0.374		0.384	0.331	

2850~3050K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
N4	0.454	0.446	N7	0.429	0.394	I _F = 150mA
	0.471	0.451		0.444	0.399	
	0.461	0.433		0.436	0.384	
	0.446	0.429		0.422	0.379	
N5	0.446	0.429	N8	0.412	0.356	
	0.461	0.433		0.422	0.379	
	0.453	0.416		0.435	0.383	
	0.438	0.412		0.423	0.358	
N6	0.438	0.412	N9	0.402	0.334	
	0.453	0.416		0.412	0.356	
	0.444	0.399		0.423	0.358	
	0.429	0.394		0.411	0.334	

3800~4100K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
S4	0.386	0.413	S7	0.374	0.366	I _F = 150mA
	0.402	0.423		0.387	0.374	
	0.396	0.404		0.383	0.360	
	0.381	0.394		0.371	0.352	
S5	0.381	0.394	S8	0.368	0.337	
	0.396	0.404		0.370	0.351	
	0.392	0.391		0.382	0.359	
	0.378	0.382		0.378	0.343	
S6	0.378	0.382	S9	0.364	0.322	
	0.392	0.391		0.368	0.337	
	0.387	0.374		0.378	0.343	
	0.374	0.366		0.373	0.327	

3050~3250K

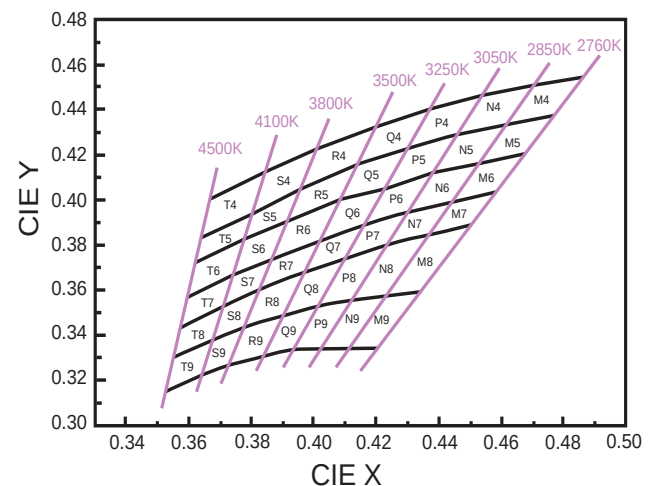
Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
P4	0.438	0.440	P7	0.416	0.389	I _F = 150mA
	0.454	0.446		0.429	0.394	
	0.446	0.429		0.422	0.379	
	0.431	0.423		0.410	0.374	
P5	0.431	0.423	P8	0.401	0.353	
	0.446	0.429		0.410	0.373	
	0.438	0.412		0.422	0.379	
	0.424	0.406		0.412	0.356	
P6	0.424	0.406	P9	0.393	0.333	
	0.438	0.412		0.401	0.353	
	0.429	0.394		0.412	0.356	
	0.416	0.389		0.402	0.334	

4100~4500K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
T4	0.367	0.400	T7	0.359	0.356	I _F = 150mA
	0.386	0.413		0.374	0.366	
	0.381	0.394		0.371	0.352	
	0.364	0.383		0.357	0.343	
T5	0.364	0.383	T8	0.355	0.330	
	0.381	0.394		0.357	0.343	
	0.378	0.382		0.370	0.351	
	0.362	0.372		0.368	0.337	
T6	0.362	0.372	T9	0.353	0.315	
	0.378	0.382		0.355	0.330	
	0.374	0.366		0.368	0.337	
	0.359	0.356		0.364	0.322	

3250~3500K

Rank	CIE_x	CIE_y	Rank	CIE_x	CIE_y	Condition
Q4	0.421	0.433	Q7	0.402	0.382	I _F = 150mA
	0.438	0.440		0.416	0.389	
	0.431	0.423		0.410	0.374	
	0.415	0.416		0.397	0.367	
Q5	0.415	0.416	Q8	0.390	0.349	
	0.431	0.423		0.396	0.367	
	0.424	0.406		0.410	0.373	
	0.409	0.400		0.401	0.353	
Q6	0.409	0.400	Q9	0.384	0.331	
	0.424	0.406		0.390	0.349	
	0.416	0.389		0.401	0.353	
	0.402	0.382		0.393	0.333	



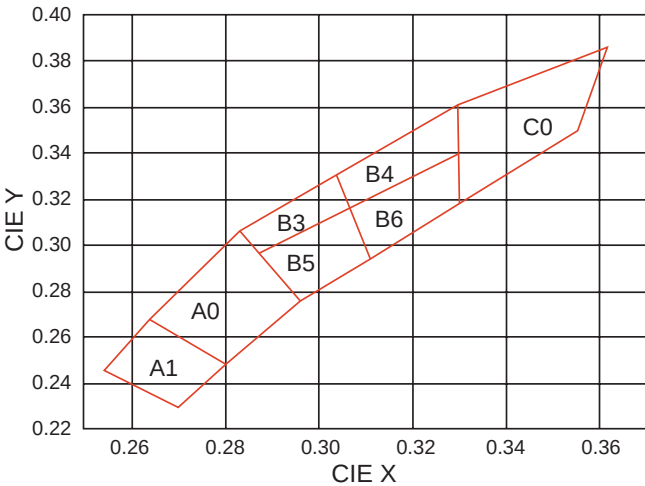
AUTOMOTIVE LED : SMD LED
BRIGHTNESS BIN SELECTION

Bin Range of Chromaticity Coordinates

($I_F=20\text{mA}$ / $T_a=25^\circ\text{C}$)

Color Ranks		CIE			
A1	X	0.255	0.264	0.280	0.270
	Y	0.245	0.267	0.248	0.230
A0	X	0.264	0.283	0.296	0.280
	Y	0.267	0.305	0.267	0.248
B3	X	0.283	0.304	0.307	0.287
	Y	0.305	0.330	0.315	0.295
B4	X	0.304	0.330	0.330	0.307
	Y	0.330	0.360	0.339	0.315
B5	X	0.287	0.307	0.311	0.296
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.330	0.330	0.311
	Y	0.315	0.339	0.318	0.294
C0	X	0.330	0.361	0.355	0.330
	Y	0.360	0.385	0.350	0.318

Note: Measurement uncertainty of the color coordinates ± 0.01 .



Bin Range of Luminous Intensity

Unit : mcd

Group	Bin	Min	Max
C	C1	0.28	0.36
	C2	0.36	0.45
D	D1	0.45	0.56
	D2	0.56	0.71
E	E1	0.71	0.9
	E2	0.9	1.12
F	F1	1.12	1.4
	F2	1.4	1.8
G	G1	1.8	2.24
	G2	2.24	2.8
H	H1	2.8	3.55
	H2	3.55	4.5
J	J1	4.5	5.6
	J2	5.6	7.1
K	K1	7.1	9
	K2	9	11.2
L	L1	11.2	14
	L2	14	18
M	M1	18	22.4
	M2	22.4	28
N	N1	28	35.5
	N2	35.5	45
P	P1	45	56
	P2	56	71
Q	Q1	71	90
	Q2	90	112
R	R1	112	140
	R2	140	180
S	S1	180	224
	S2	224	280
T	T1	280	355
	T2	355	450
U	U1	450	560
	U2	560	710
V	V1	710	900
	V2	900	1120
AW	AA	1120	1400
	AB	1400	1800
BW	BA	1800	2240
	BB	2240	2800
CW	CA	2800	3550
	CB	3550	4500
DW	DA	4500	5600
	DB	5600	7100
EW	EA	7100	9000
	EB	9000	11200
FW	FA	11200	14000
	FB	14000	18000
GW	GA	18000	22400
	GB	22400	28000
HW	HA	28000	35500
	HB	35500	45000
IW	IA	45000	56000
	IB	56000	71000

TECHNICAL DATA

AUTOMOTIVE LED : SUPER FLUX LED BRIGHTNESS BIN SELECTION

Bin Range of Total Flux

Unit : lm

Group	Bin	Min	Max	Group	Bin	Min	Max
A	A1	6	8	N	N1	715	900
	A2	8	10		N2	900	1125
B	B1	10	12.5	P	P1	1125	1425
	B2	12.5	15		P2	1425	1800
C	C1	15	18	Q	Q1	1800	2250
	C2	18	22		Q2	2250	2850
D	D1	22	28	R	R1	2850	3600
	D2	28	35		R2	3600	4500
E	E1	35	42	S	S1	4500	5650
	E2	42	50		S2	5650	7150
F	F1	50	60	T	T1	7150	9000
	F2	60	70		T2	9000	11250
G	G1	70	85	U	U1	11250	14250
	G2	85	100		U2	14250	18000
H	H1	100	120	V	V1	18000	22500
	H2	120	140		V2	22500	28500
J	J1	140	170	W	W1	28500	36000
	J2	170	200		W2	36000	43200
K	K1	200	240	X	X1	43200	51840
	K2	240	285		X2	51840	62200
L	L1	285	360	Y	Y1	62200	74600
	L2	360	450		Y2	74600	87500
M	M1	450	565				
	M2	565	715				

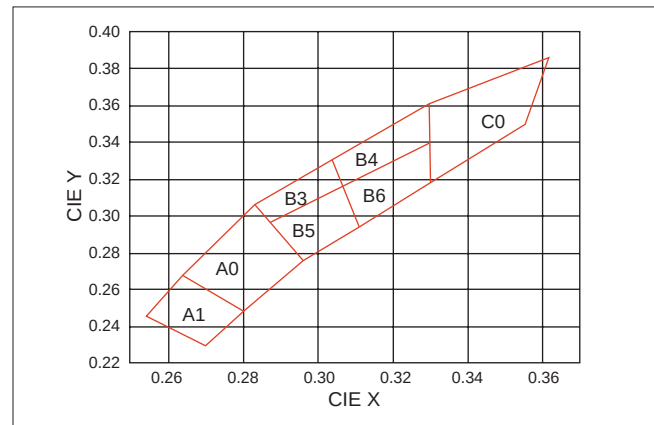
Note: Tolerance of Forward Voltage: $\pm 0.05V$.

Color Ranks

($I_F=20mA$ / $T_a=25^\circ C$)

Color Ranks		CIE			
A1	X	0.255	0.264	0.280	0.270
	Y	0.245	0.267	0.248	0.230
A0	X	0.264	0.283	0.296	0.280
	Y	0.267	0.305	0.267	0.248
B3	X	0.283	0.304	0.307	0.287
	Y	0.305	0.330	0.315	0.295
B4	X	0.304	0.330	0.330	0.307
	Y	0.330	0.360	0.339	0.315
B5	X	0.287	0.307	0.311	0.296
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.330	0.330	0.311
	Y	0.315	0.339	0.318	0.294
C0	X	0.330	0.361	0.355	0.330
	Y	0.360	0.385	0.350	0.318

Note: Measurement uncertainty of the color coordinates ± 0.01 .



V_F (Forward Voltage Spec. Setup)

Unit : V

Groups											Code	Min.	Max.	Groups				Code	Min.	Max.		
A							J	I	N	K	M	U	0	1.7	1.9	1				9	1.8	2.0
	1	1.9	2.1										A	2.0	2.2							
	2	2.1	2.3										B	2.2	2.4							
B	C	L	F	D	G	H	J	I	N	K	M	U	3	2.3	2.5				C	2.4	2.6	
													4	2.5	2.7				D	2.6	2.8	
													5	2.7	2.9	2	3	4	5	6	E	2.8
	6	2.9	3.1	F	3.0	3.2																
	7	3.1	3.3	G	3.2	3.4																
												8	3.3	3.5				H	3.4	3.6		
																		6	J	3.6	3.8	
																			K	3.8	4.0	
																			L	4.0	4.2	

LED LAMPS
BRIGHTNESS BIN SELECTION

Brightness Bin Selection

Unit : mcd

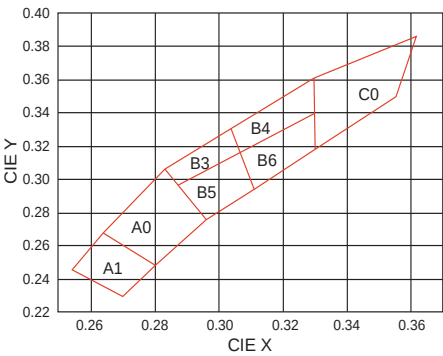
Item	Intensity Iv (mcd)	
Bin Code	Min.	Max.
a7	6.0	8.0
a6	8.0	10.0
a5	10.0	12.0
a4	12.0	15.0
a3	15.0	18.0
a2	18.0	22.0
a1	22.0	28.0
0	28.0	35.0
1	35.0	42.0
2	42.0	50.0
3	50.0	60.0
4	60.0	70.0
5	70.0	85.0
6	85.0	100
7	100	120
8	120	140
9	140	170
A	170	200
B	200	240
C	240	285
D	285	360
E	360	450
F	450	565
G	565	715
H	715	900
J	900	1,125
K	1,125	1,425
L	1,425	1,800
M	1,800	2,250
N	2,250	2,850
P	2,850	3,600
Q	3,600	4,500
R	4,500	5,650
S	5,650	7,150
T	7,150	9,000
U	9,000	11,250
V	11,250	14,250
W	14,250	18,000
X	18,000	22,500
Y	22,500	28,500
Z	28,500	36,000

Cool White / CIE Chromaticity Diagram

($I_F=20\text{mA}$ / $T_a=25^\circ\text{C}$)

Color Ranks		CIE			
A1	X	0.255	0.264	0.280	0.270
	Y	0.245	0.267	0.248	0.230
A0	X	0.264	0.283	0.296	0.280
	Y	0.267	0.305	0.267	0.248
B3	X	0.283	0.304	0.307	0.287
	Y	0.305	0.330	0.315	0.295
B4	X	0.304	0.330	0.330	0.307
	Y	0.330	0.360	0.339	0.315
B5	X	0.287	0.307	0.311	0.296
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.330	0.330	0.311
	Y	0.315	0.339	0.318	0.294
C0	X	0.330	0.361	0.355	0.330
	Y	0.360	0.385	0.350	0.318

Note: Measurement uncertainty of the color coordinates ± 0.01 .

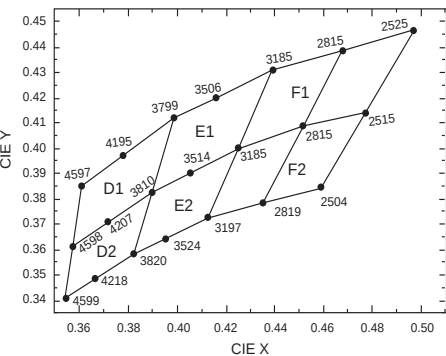


Warm White / CIE Chromaticity Diagram

($I_F=20\text{mA}$ / $T_a=25^\circ\text{C}$)

Color Ranks		CIE			
D1	X	0.357	0.361	0.398	0.389
	Y	0.361	0.385	0.411	0.382
D2	X	0.354	0.357	0.389	0.382
	Y	0.340	0.361	0.382	0.358
E1	X	0.389	0.398	0.439	0.425
	Y	0.382	0.411	0.431	0.400
E2	X	0.382	0.389	0.425	0.412
	Y	0.358	0.382	0.400	0.372
F1	X	0.425	0.439	0.497	0.477
	Y	0.400	0.431	0.466	0.413
F2	X	0.412	0.425	0.477	0.458
	Y	0.372	0.400	0.413	0.383

Note: Measurement uncertainty of the color coordinates ± 0.01 .



DIGITAL DISPLAY
BRIGHTNESS BIN SELECTION

Bin Code	Brightness Range (μcd)	
	Min.	Max.
C	70	140
D	110	220
E	180	360
F	280	560
G	450	900
H	750	1200
J	1050	1680
K	1400	2300
L	2000	3200
M	2800	4500
N	4000	6400
P	5600	8900
Q	7800	12500
R	11000	17600
S	15000	24000
T	21000	34000
U	30000	48000
V	42000	67000
W	59000	94000
X	83000	133000
Y	116000	186000
Z	158800	254000

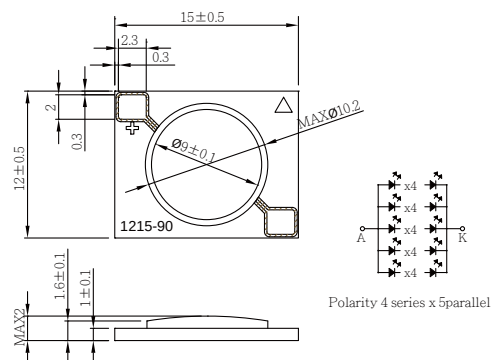
VISIBLE LED

40	HIGH POWER LED
48	LOW MIDDLE POWER LED
52	FLASH LED
56	SMD LED
98	LED LAMPs
118	LED DIGITAL DISPLAYs
136	SIGNAGE LED
142	AUTOMOTIVE LED

High Power LED ■ Ju炬 (7-10W)



UNIT : mm



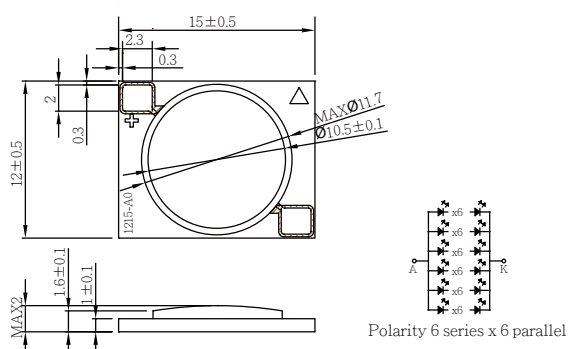
7W / 550mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
JU1215-KT657N7-12507-090T	12x15x1.6	○ Cool White	6500	810	80	11~14
JU1215-KT577N7-12507-090T	12x15x1.6	○ Cool White	5700	810	80	11~14
JU1215-KT507N7-12507-090T	12x15x1.6	○ Cool White	5000	810	80	11~14
JU1215-KM407N6-12507-090T	12x15x1.6	○ Neutral White	4000	745	80	11~14
JU1215-KM307N6-12507-090T	12x15x1.6	● Warm White	3000	735	80	11~14
JU1215-KM277N6-12507-090T	12x15x1.6	● Warm White	2700	710	80	11~14

High Power LED ■ Ju炬 (10-15W)



UNIT : mm



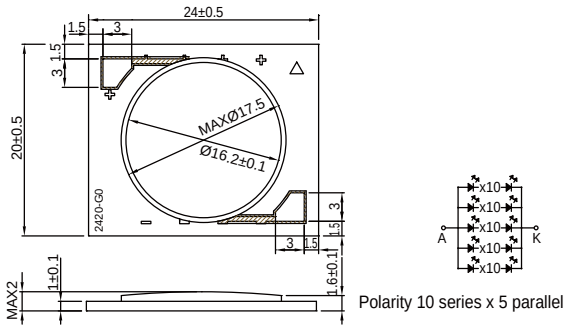
10W / 550mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
JU1215-KT657P3-18610-0A0T	12x15x1.6	○ Cool White	6500	1230	80	16~20
JU1215-KT577P3-18610-0A0T	12x15x1.6	○ Cool White	5700	1220	80	11~14
JU1215-KT507P3-18610-0A0T	12x15x1.6	○ Cool White	5000	1210	80	11~14
JU1215-KM407P2-18610-0A0T	12x15x1.6	○ Neutral White	4000	1150	80	16~20
JU1215-KM307P2-18610-0A0T	12x15x1.6	● Warm White	3000	1110	80	16~20
JU1215-KM277P1-18610-0A0T	12x15x1.6	● Warm White	2700	1060	80	16~20

High Power LED ■ Ju炬 (15-25W)



UNIT : mm



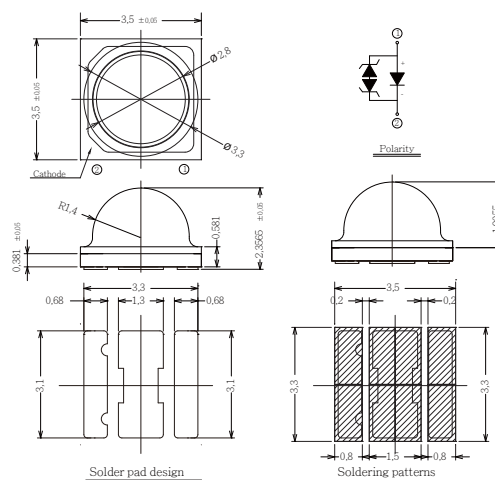
15W / 500mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
JU2024-KT507P7-30515-0G0T	12x15x1.6	○ Cool White	5000	1800	80	28.5~31
JU2024-KM307P6-30515-0G0T	12x15x1.6	● Warm White	3000	1600	80	28.5~31

High Power LED ■ Shwo(D) 燦(D) (1W-3W)



UNIT : mm



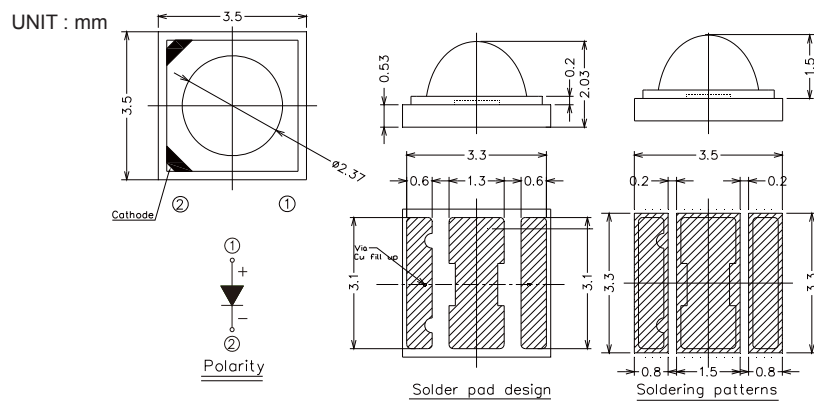
1W / 350mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSWD-J31C1-1LPGC-C6500	3.5x3.5x2.35	○ Cool White	6500	125	70	2.95~4.15
ELSWD-J31C1-1LPGC-C5700	3.5x3.5x2.35	○ Cool White	5700	125	70	2.95~4.15
ELSWD-J21C1-1LPHC-C5700	3.5x3.5x2.35	○ Cool White	5700	115	80	2.95~4.15
ELSWD-J21C1-1LPGC-C5000	3.5x3.5x2.35	○ Cool White	5000	115	70	2.95~4.15
ELSWD-J21C1-1LPGC-C4500	3.5x3.5x2.35	○ Neutral White	4500	115	70	2.95~4.15
ELSWD-J11N1-1LPHC-C4500	3.5x3.5x2.35	○ Neutral White	4500	105	80	2.95~4.15
ELSWD-J11C1-1LPGC-C4000	3.5x3.5x2.35	○ Neutral White	4000	105	70	2.95~4.15
ELSWD-J11N1-1LPHC-C4000	3.5x3.5x2.35	○ Neutral White	4000	105	80	2.95~4.15
ELSWD-F91M1-1LPHE-C3500	3.5x3.5x2.35	● Warm White	3500	95	80	2.95~4.15
ELSWD-F91M1-1LPHE-C3000	3.5x3.5x2.35	● Warm White	3000	95	80	2.95~4.15
ELSWD-F81M1-1LPHE-C2700	3.5x3.5x2.35	● Warm White	2700	85	80	2.95~4.15

3W / 700mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSWD-J31C1-1LPGC-C6500	3.5x3.5x2.35	○ Cool White	6500	210	70	2.95~4.15
ELSWD-J31C1-1LPGC-C5700	3.5x3.5x2.35	○ Cool White	5700	210	70	2.95~4.15
ELSWD-J21C1-1LPHC-C5700	3.5x3.5x2.35	○ Cool White	5700	190	80	2.95~4.15
ELSWD-J21C1-1LPGC-C5000	3.5x3.5x2.35	○ Cool White	5000	190	70	2.95~4.15
ELSWD-J21C1-1LPGC-C4500	3.5x3.5x2.35	○ Neutral White	4500	190	70	2.95~4.15
ELSWD-J11N1-1LPHC-C4500	3.5x3.5x2.35	○ Neutral White	4500	180	80	2.95~4.15
ELSWD-J11C1-1LPGC-C4000	3.5x3.5x2.35	○ Neutral White	4000	180	70	2.95~4.15
ELSWD-J11N1-1LPHC-C4000	3.5x3.5x2.35	○ Neutral White	4000	180	80	2.95~4.15
ELSWD-F91M1-1LPHE-C3500	3.5x3.5x2.35	● Warm White	3500	155	80	2.95~4.15
ELSWD-F91M1-1LPHE-C3000	3.5x3.5x2.35	● Warm White	3000	155	80	2.95~4.15
ELSWD-F81M1-1LPHE-C2700	3.5x3.5x2.35	● Warm White	2700	155	80	2.95~4.15

High Power LED ■ Shwo燦 (1W, 3W)



1W / 350mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSW-F91C1-0LPGS-C6500	3.5x3.5x2.03	○ Cool White	6500	95	70	2.95~3.85
ELSW-F91C1-0LPGS-C5700	3.5x3.5x2.03	○ Cool White	5700	95	70	2.95~3.85
ELSW-F81C1-0LPGS-C5000	3.5x3.5x2.03	○ Cool White	5000	85	70	2.95~3.85
ELSW-F81N1-0LPGS-C4500	3.5x3.5x2.03	○ Neutral White	4500	85	75	2.95~3.85
ELSW-F81N1-0LPGS-C4000	3.5x3.5x2.03	○ Neutral White	4000	85	75	2.95~3.85
ELSW-F71M1-0LPGS-C3500	3.5x3.5x2.03	○ Warm White	3500	75	75	2.95~3.85
ELSW-F71M1-0LPGS-C3000	3.5x3.5x2.03	○ Warm White	3000	75	75	2.95~3.85
ELSW-F61M1-0LPGS-C2700	3.5x3.5x2.03	○ Warm White	2700	65	75	2.95~3.85

Product	Size (LxWxHmm)	Color	Wavelength (nm)	Typ. Radiant Power (mW)	CRI (min.)	Forward Voltage (V)
*ELSW-F61R1-0PPNM-AR5R6	3.5x3.5x2.03	● Red	620~630	65	--	1.75~2.65
ELSW-F61O1-0PPNM-AR3R4	3.5x3.5x2.03	● Orange	610~620	65	--	1.75~2.65
ELSW-F41Y1-0LPNM-AA3A5	3.5x3.5x2.03	● Amber	585~592.5	48	--	1.75~2.65
*ELSW-F81G1-0GPNM-CG1G2	3.5x3.5x2.03	● Green	520~530	85	--	2.95~3.85
*ELSW-E81B1-0LPNM-CB7B8	3.5x3.5x2.03	● Blue	460~470	21	--	2.95~3.85
ELSW-Q91L1-0LPNM-CB4B6	3.5x3.5x2.03	● Royal Blue	445~460	275	--	2.95~3.85
*ELSW-Q91E1-0LPNM-AD3D8	3.5x3.5x2.03	● Red	645~675	275	--	2.05~2.95

Star mark * : *Product lead time of at least 8 weeks.

3W / 700mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSW-J61C3-0LPGS-D6500	3.5x3.5x2.03	○ Cool White	6500	155	70	2.95~3.85
ELSW-J61C3-0LPGS-D5700	3.5x3.5x2.03	○ Cool White	5700	155	70	2.95~3.85
ELSW-J51C3-0LPGS-D5000	3.5x3.5x2.03	○ Cool White	5000	145	70	2.95~3.85
ELSW-J41N3-0LPGS-D4500	3.5x3.5x2.03	○ Neutral White	4500	135	75	2.95~3.85
ELSW-J31N3-0LPGS-D4000	3.5x3.5x2.03	○ Neutral White	4000	125	75	2.95~3.85
ELSW-J21M3-0LPGS-D3500	3.5x3.5x2.03	○ Warm White	3500	115	75	2.95~3.85
ELSW-J21M3-0LPGS-D3000	3.5x3.5x2.03	○ Warm White	3000	115	75	2.95~3.85
ELSW-J21M3-0LPGS-D2700	3.5x3.5x2.03	○ Warm White	2700	115	75	2.95~3.85

Product	Size (LxWxHmm)	Color	Wavelength (nm)	Typ. Radiant Power (mW)	CRI (min.)	Forward Voltage (V)
ELSW-F91R3-0LPNM-BR4R6	3.5x3.5x2.03	● Red	615~630	95	90	2.05~3.25
ELSW-F91Y3-0LPNM-BA3A5	3.5x3.5x2.03	● Amber	585~592.5	95	90	2.05~3.25
*ELSW-J11G3-0LPNM-DG1G3	3.5x3.5x2.03	● Green	520~535	105	100	3.25~4.15
*ELSW-E91B3-0LPNM-DB6B8	3.5x3.5x2.03	● Blue	455~470	25	23	3.25~4.15
*ELSW-Q81F3-0LPNM-BF5F7	3.5x3.5x2.03	● Infrared Red	725~740	225	--	2.05~3.25

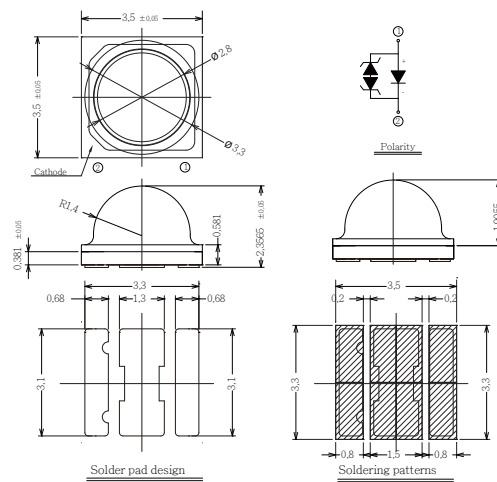
Star mark * : *Product lead time of at least 8 weeks.

High Power LED ■ HV (1W, 2W)



1W / 20mA

UNIT : mm

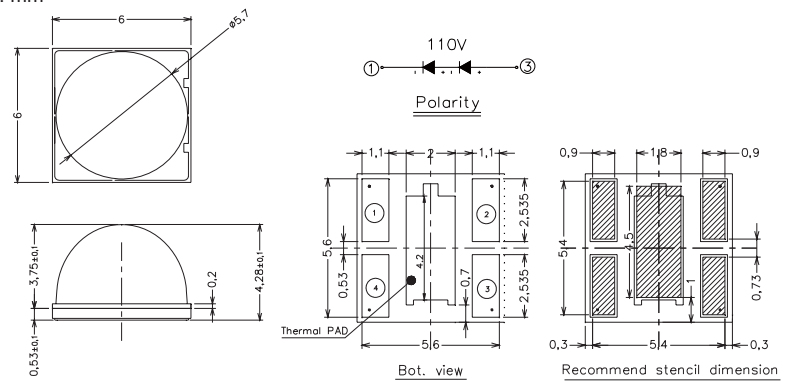


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
EZHVD-J11C1-1LPGC-F5700	3.5x3.5x2.03	○ Cool White	5700	105	70	47~55 VDC
EZHVD-F81M1-1LPHE-F3000	3.5x3.5x2.03	● Warm White	3000	85	80	47~55 VDC



2W / 20mA

UNIT : mm

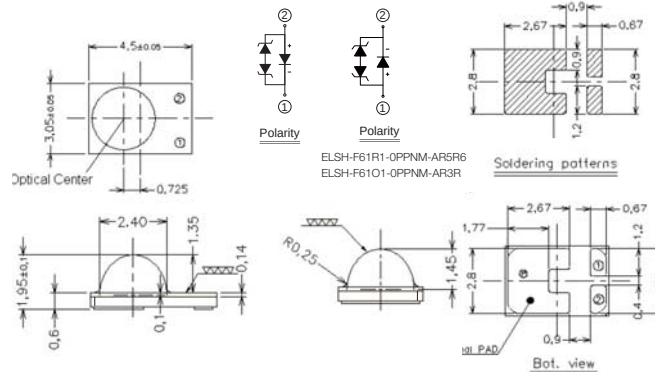


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
EZHV-J51M2-2LPHS-F3000	6x6x4.28	● Warm White	3000	145	80	95~111
EZHV-J41M2-2LPHS-F2700	6x6x4.28	● Warm White	2700	135	80	95~111

High Power LED ■ Shuen炫 (1W, 3W)



UNIT : mm



1W / 350mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSH-F91C1-0LPGS-C6500	3.05x4.5x1.95	○ Cool White	6500	95	70	2.95~3.85
ELSH-F91C1-0LPGS-C5700	3.05x4.5x1.95	○ Cool White	5700	95	70	2.95~3.85
ELSH-F81C1-0LPGS-C5000	3.05x4.5x1.95	○ Cool White	5000	85	70	2.95~3.85
ELSH-F81N1-0LPGS-C4500	3.05x4.5x1.95	○ Neutral White	4500	85	75	2.95~3.85
ELSH-F81N1-0LPGS-C4000	3.05x4.5x1.95	○ Neutral White	4000	85	75	2.95~3.85
ELSH-F71M1-0LPGS-C3500	3.05x4.5x1.95	○ Warm White	3500	75	75	2.95~3.85
ELSH-F71M1-0LPGS-C3000	3.05x4.5x1.95	○ Warm White	3000	75	75	2.95~3.85
ELSH-F61M1-0LPGS-C2700	3.05x4.5x1.95	○ Warm White	2700	65	75	2.95~3.85

Product	Size (LxWxHmm)	Color	Wavelength (nm)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
*ELSH-F51R1-0LPNM-AR5R6	3.05x4.5x1.95	● Red	620~630	56	--	1.75~2.95
*ELSH-F61R1-0PPNM-AR5R6	3.05x4.5x1.95	● Red	620~630	65	--	1.75~2.95
ELSH-F51O1-0LPNM-AR3R4	3.05x4.5x1.95	● Orange	610~620	56	--	1.75~2.95
ELSH-F61O1-0PPNM-AR3R4	3.05x4.5x1.95	● Orange	610~620	65	--	1.75~2.95
ELSH-F41Y1-0LPNM-AA3A5	3.05x4.5x1.95	● Amber	585~592.5	48	--	1.75~2.95
ELSH-F41Y1-0LPNM-AA4A6	3.05x4.5x1.95	● Amber	587.5~595	48	--	1.75~2.95
ELSH-F81G1-0GPNM-CG1G2	3.05x4.5x1.95	● Green	520~530	85	--	2.95~3.85
ELSH-F81G1-0GPNM-CG2G3	3.05x4.5x1.95	● Green	525~535	85	--	2.95~3.85
*ELSH-E81B1-0LPNM-CB7B8	3.05x4.5x1.95	● Blue	460~470	21	--	2.95~3.85
ELSH-Q91L1-0LPNM-CB4B6	3.05x4.5x1.95	● Royal Blue	Wp 445~460	312 mW	--	2.95~3.85
*ELSH-Q91E1-0LPNM-JD3D8	3.05x4.5x1.95	● Deep Red	Wp 645~675	312 mW	--	2.05~2.95
*ELSH-Q61F1-0LPNM-JF3F8	3.05x4.5x1.95	● Far Red	Wp 715~745	150 mW	--	2.05~2.95

Star mark * : *Product lead time of at least 8 weeks.

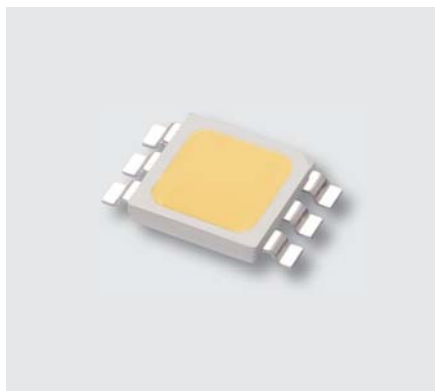
3W / 700mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSH-J61C3-0LPGS-D6500	3.05x4.5x1.95	○ Cool White	6500	155	70	3.25~4.15
ELSH-J61C3-0LPGS-D5700	3.05x4.5x1.95	○ Cool White	5700	155	70	3.25~4.15
ELSH-J51C3-0LPGS-D5000	3.05x4.5x1.95	○ Cool White	5000	145	70	3.25~4.15
ELSH-J41N3-0LPGS-D4500	3.05x4.5x1.95	○ Neutral White	4500	135	75	3.25~4.15
ELSH-J31N3-0LPGS-D4000	3.05x4.5x1.95	○ Neutral White	4000	125	75	3.25~4.15
ELSH-J21M3-0LPGS-D3500	3.05x4.5x1.95	○ Warm White	3500	115	75	3.25~4.15
ELSH-J21M3-0LPGS-D3000	3.05x4.5x1.95	○ Warm White	3000	115	75	3.25~4.15
ELSH-J21M3-0LPGS-D2700	3.05x4.5x1.95	○ Warm White	2700	115	75	3.25~4.15

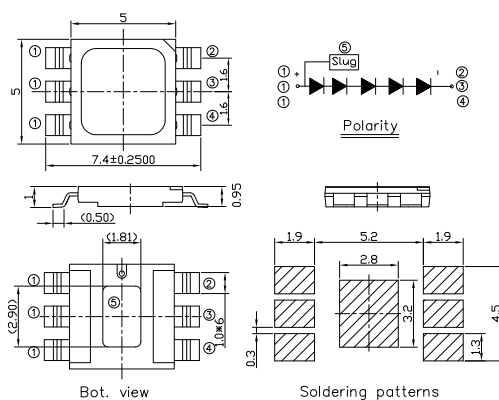
Product	Size (LxWxHmm)	Color	Wavelength (nm)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
ELSH-F91R3-0LPNM-BR4R6	3.05x4.5x1.95	● Red	615~630	95	--	2.05~3.25
ELSH-F91Y3-0LPNM-BA3A5	3.05x4.5x1.95	● Amber	585~592.5	95	--	2.05~3.25
*ELSH-J11G3-0LPNM-DG1G3	3.05x4.5x1.95	● Green	520~535	105	--	3.25~4.15
*ELSH-E91B3-0LPNM-DB6B8	3.05x4.5x1.95	● Blue	455~470	25	--	3.25~4.15

Star mark * : *Product lead time of at least 8 weeks.

High Power LED ■ A22 (1W-3W)



UNIT : mm



1W / 80mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
EHP-A22/GT35H-P01/65K/K53/TR	7.4x5x0.95	○ Cool White	6500	130	65	13.5~16.5
EHP-A22/GT35H-P01/57K/N12/TR	7.4x5x0.95	○ Cool White	5700	140	65	13.5~16.5
EHP-A22/GT35H-P01/57K/N11/TR	7.4x5x0.95	○ Cool White	5700	130	65	13.5~16.5
EHP-A22/KT35H-P01/57K/K53/TR	7.4x5x0.95	○ Cool White	5700	120	80	13.5~16.5
EHP-A22/GT35H-P01/50K/K53/TR	7.4x5x0.95	○ Cool White	5000	130	65	13.5~16.5
EHP-A22/KM35H-P01/45K/K51/TR	7.4x5x0.95	○ Neutral White	4500	115	80	13.5~16.5
EHP-A22/KM35H-P01/40K/K51/TR	7.4x5x0.95	● Warm White	4000	115	80	13.5~16.5
EHP-A22/KM35H-P01/35K/K51/TR	7.4x5x0.95	● Warm White	3500	115	80	13.5~16.5
EHP-A22/KM35H-P01/30K/K52/TR	7.4x5x0.95	● Warm White	3000	120	80	13.5~16.5
EHP-A22/KM35H-P01/30K/K51/TR	7.4x5x0.95	● Warm White	3000	110	80	13.5~16.5
EHP-A22/KM35H-P01/27K/K43/TR	7.4x5x0.95	● Warm White	2700	110	80	13.5~16.5

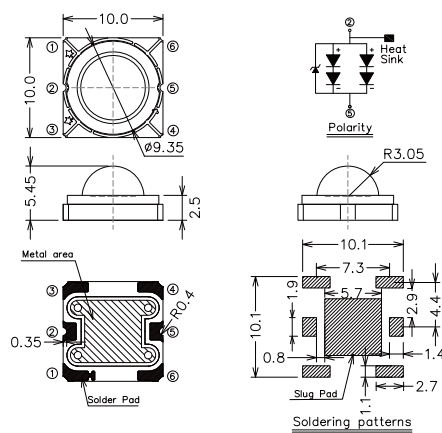
3W / 150mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
EHP-A22/GT35H-P01/65K/K53/TR	7.4x5x0.95	○ Cool White	6500	230	65	14.7~17.7
EHP-A22/GT35H-P01/57K/N12/TR	7.4x5x0.95	○ Cool White	5700	240	65	14.7~17.7
EHP-A22/GT35H-P01/57K/N11/TR	7.4x5x0.95	○ Cool White	5700	240	65	14.7~17.7
EHP-A22/KT35H-P01/57K/K53/TR	7.4x5x0.95	○ Cool White	5700	220	80	14.7~17.7
EHP-A22/GT35H-P01/50K/K53/TR	7.4x5x0.95	○ Cool White	5000	230	65	14.7~17.7
EHP-A22/KM35H-P01/45K/K51/TR	7.4x5x0.95	○ Neutral White	4500	200	80	14.7~17.7
EHP-A22/KM35H-P01/40K/K51/TR	7.4x5x0.95	● Warm White	4000	200	80	14.7~17.7
EHP-A22/KM35H-P01/35K/K51/TR	7.4x5x0.95	● Warm White	3500	190	80	14.7~17.7
EHP-A22/KM35H-P01/30K/K52/TR	7.4x5x0.95	● Warm White	3000	210	80	14.7~17.7
EHP-A22/KM35H-P01/30K/K51/TR	7.4x5x0.95	● Warm White	3000	190	80	14.7~17.7
EHP-A22/KM35H-P01/27K/K43/TR	7.4x5x0.95	● Warm White	2700	180	80	14.7~17.7

High Power LED ■ B05 (5W)



UNIT : mm



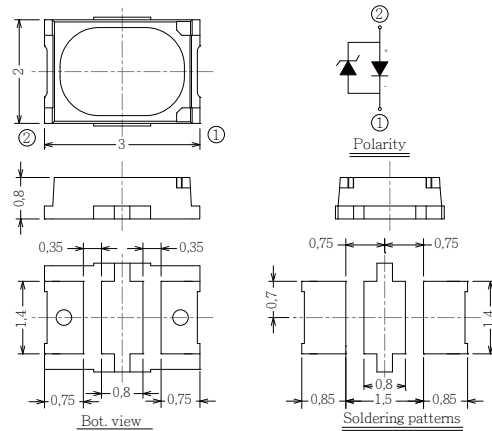
5W / 700mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	CRI (min.)	Forward Voltage (V)
EHP-B05MLG/GT14H-P05/65K/R12/TR	10x10x5.45	○ Cool White	6500	450	70	6~7
EHP-B05MLG/GT14H-P05/57K/R12/TR	10x10x5.45	○ Cool White	5700	450	70	6~7
EHP-B05MLG/GT14H-P05/50K/R12/TR	10x10x5.45	○ Cool White	5000	450	70	6~7
EHP-B05MLG/KM14H-P05/45K/R11/TR	10x10x5.45	○ Neutral White	4500	400	70	6~7
EHP-B05MLG/KM14H-P05/40K/N52/TR	10x10x5.45	○ Neutral White	4000	375	80	6~7
EHP-B05MLG/KM14H-P05/35K/N52/TR	10x10x5.45	○ Warm White	3500	350	80	6~7
EHP-B05MLG/KM14H-P05/30K/N51/TR	10x10x5.45	○ Warm White	3000	325	80	6~7
EHP-B05MLG/KM14H-P05/27K/N51/TR	10x10x5.45	○ Warm White	2700	325	80	6~7

Low Middle Power LED ■ 45-21S Series (3020 package, 0.1W / 0.2W)



UNIT : mm



0.1W / 30mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 30mA	CRI (min.)	Forward Voltage (V)
45-21S/QK2C-S6565B8L3B2Z3/2T	3x2x0.8	○ Cool White	6500	10	75	2.9~3.6
45-21S/QK2C-S5757B9L4B2Z3/2T	3x2x0.8	○ Cool White	5700	11	75	2.9~3.6
45-21S/QK2C-S5050B9L4B2Z3/2T	3x2x0.8	○ Cool White	5000	11	75	2.9~3.6
45-21S/QK2C-S4545B8L3B2Z3/2T	3x2x0.8	○ Neutral White	4500	10	75	2.9~3.6
45-21S/QK2C-S4040B8L3B2Z3/2T	3x2x0.8	○ Neutral White	4000	10	75	2.9~3.6
*45-21S/KK2C-S6565XXXB2Z3/2T	3x2x0.8	○ Cool White	6500	--	80	2.9~3.6
*45-21S/KK2C-S5757XXXB2Z3/2T	3x2x0.8	○ Cool White	5700	--	80	2.9~3.6
*45-21S/KK2C-S5050XXXB2Z3/2T	3x2x0.8	○ Cool White	5000	--	80	2.9~3.6
*45-21S/KK2C-S4040XXXB2Z3/2T	3x2x0.8	○ Neutral White	4000	--	80	2.9~3.6
*45-21S/KK2C-S3030XXXB2Z3/2T	3x2x0.8	● Warm White	3000	--	80	2.9~3.6
*45-21S/KK2C-S2727XXXB2Z3/2T	3x2x0.8	● Warm White	2700	--	80	2.9~3.6

Star Mark *: Preliminary Product Availability ; Please visit EVERLIGHT website for more updated information (www.everlight.com)
or contact EVERLIGHT sales for regional options.

0.2W / 60mA

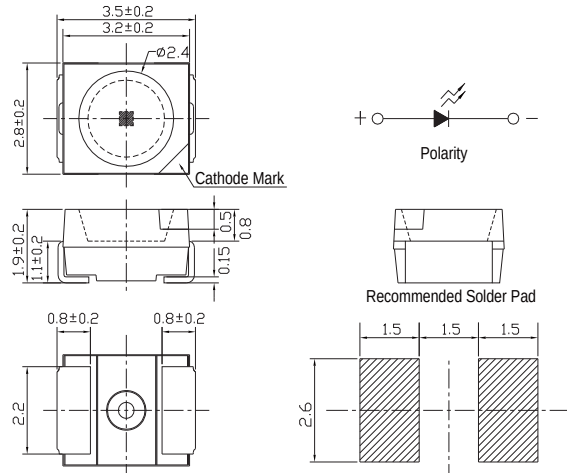
Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 60mA	CRI (min.)	Forward Voltage (V)
45-21S/LK2C-S6565L9M4B2Z6/2T	3x2x0.8	○ Cool White	6500	20	70	2.9~3.6
45-21S/LK2C-S5757L9M4B2Z6/2T	3x2x0.8	○ Cool White	5700	20	70	2.9~3.6
45-21S/LK2C-S5050L9M4B2Z6/2T	3x2x0.8	○ Cool White	5000	20	70	2.9~3.6
45-21S/KK2C-S4040L8M4B2Z6/2T	3x2x0.8	○ Neutral White	4000	19	80	2.9~3.6
45-21S/KK2C-S3030L6L9B2Z6/2T	3x2x0.8	● Warm White	3000	17	80	2.9~3.6
45-21S/KK2C-S2727L5L7B2Z6/2T	3x2x0.8	● Warm White	2700	15	80	2.9~3.6
*45-21S/KK2C-S6565XXXB2Z6/2T	3x2x0.8	○ Cool White	6500	--	80	2.9~3.6
*45-21S/KK2C-S5757XXXB2Z6/2T	3x2x0.8	○ Cool White	5700	--	80	2.9~3.6
*45-21S/KK2C-S5050XXXB2Z6/2T	3x2x0.8	○ Cool White	5000	--	80	2.9~3.6

Star Mark *: Preliminary Product Availability ; Please visit EVERLIGHT website for more updated information (www.everlight.com)
or contact EVERLIGHT sales for regional options.

Low Middle Power LED ■ 67-21 Series (3528 package, 0.1W)



UNIT : mm



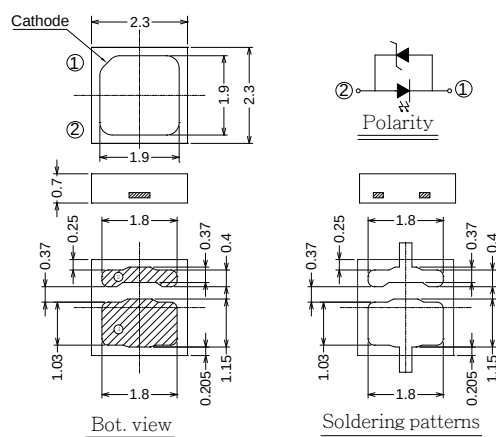
Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 30mA	CRI (min.)	Forward Voltage (V)
67-21/LK2C-B5670B9L3B2Z3/2T	3.5x2.8x1.9	○ Cool White	5600~7000	11	70	2.9~3.6
67-21/LK2C-B5063B9L3B2Z3/2T	3.5x2.8x1.9	○ Cool White	5000~6300	11	70	2.9~3.6
67-21/LK2C-B2832B7L1B2Z3/2T	3.5x2.8x1.9	● Warm White	2800~3200	9.5	70	2.9~3.6
67-21/LK2C-S5757B9L2B2Z3/2T	3.5x2.8x1.9	○ Cool White	5700	10	70	2.9~3.6
67-21/KK2C-S3030B7B9B2Z3/2T	3.5x2.8x1.9	● Warm White	3000	9	80	2.9~3.6
67-21/KK2C-S2727B6B8B2Z3/2T	3.5x2.8x1.9	● Warm White	2700	8.5	80	2.9~3.6
*67-21/KK2C-S6565XXXXB2Z3/2T	3.5x2.8x1.9	○ Cool White	6500	--	80	2.9~3.6
*67-21/KK2C-S5757XXXXB2Z3/2T	3.5x2.8x1.9	○ Cool White	5700	--	80	2.9~3.6
*67-21/KK2C-S5050XXXXB2Z3/2T	3.5x2.8x1.9	○ Cool White	5000	--	80	2.9~3.6
*67-21/KK2C-S4040XXXXB2Z3/2T	3.5x2.8x1.9	○ Neutral White	4000	--	80	2.9~3.6

Star Mark *: Preliminary Product Availability ; Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Low Middle Power LED ■ 2323 Series (0.2W)



UNIT : mm



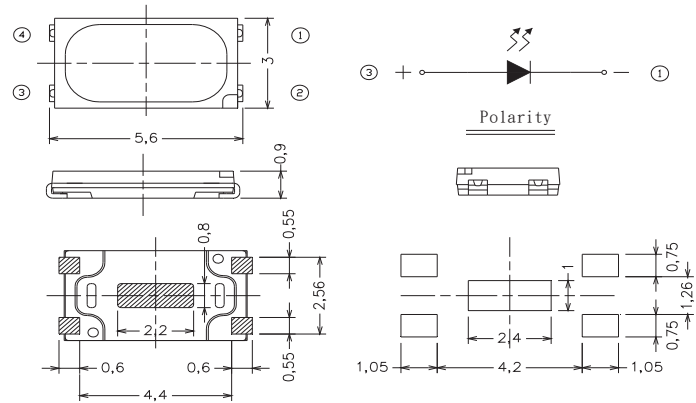
Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 65mA	CRI (min.)	Forward Voltage (V)
XI2323/KK2C-S6565 M4N4BXXZ65/2T	2.3x2.3x0.7	○ Cool White	6500	24.5	80	2.7~3.2
XI2323/KK2C-S5757 M4N4BXXZ65/2T	2.3x2.3x0.7	○ Cool White	5700	25.5	80	2.7~3.2
XI2323/KK2C-S5050 M4N4BXXZ65/2T	2.3x2.3x0.7	○ Cool White	5000	24.5	80	2.7~3.2
XI2323/KK2C-S4040 M4N4BXXZ65/2T	2.3x2.3x0.7	○ Neutral White	4000	22.5	80	2.7~3.2
XI2323/KK2C-S3030 L9M4BXXZ65/2T	2.3x2.3x0.7	● Warm White	3000	22	80	2.7~3.2
XI2323/KK2C-S2727 L9M4BXXZ65/2T	2.3x2.3x0.7	● Warm White	2700	22	80	2.7~3.2

• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Low Middle Power LED ■ 62-217B Series (5630 package, 0.2W / 0.5W)



UNIT : mm



0.2W / 60mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 60mA	CRI (min.)	Forward Voltage (V)
62-217B/LK2C-W7090M3N4B2Z6/2T	5.6×3×0.9	○ Cool White	7000~9000	21	70	2.9~3.6
62-217B/QK2C-S6565M3N4B2Z6/2T	5.6×3×0.9	○ Cool White	6500	21	75	2.9~3.6
62-217B/QK2C-S5757M3N4B2Z6/2T	5.6×3×0.9	○ Cool White	5700	21	75	2.9~3.6
62-217B/QK2C-S5050M3N4B2Z6/2T	5.6×3×0.9	○ Cool White	5000	21	75	2.9~3.6
62-217B/KK2C-S6565L8N3B2Z6/2T	5.6×3×0.9	○ Cool White	6500	19	80	2.9~3.6
62-217B/KK2C-S5757M3N3B2Z6/2T	5.6×3×0.9	○ Cool White	5700	21	80	2.9~3.6
62-217B/KK2C-S5050L9N3B2Z6/2T	5.6×3×0.9	○ Cool White	5000	19	80	2.9~3.6
62-217B/KK2C-S4545L8N3B2Z6/2T	5.6×3×0.9	○ Neutral White	4500	18	80	2.9~3.6
62-217B/KK2C-S4040L8N3B2Z6/2T	5.6×3×0.9	○ Neutral White	4000	18	80	2.9~3.6
62-217B/KK2C-S3535L8N3B2Z6/2T	5.6×3×0.9	● Warm White	3500	18	80	2.9~3.6
62-217B/KK2C-S3030L6M4B2Z6/2T	5.6×3×0.9	● Warm White	3000	17	80	2.9~3.6
62-217B/KK2C-S2727L6M4B2Z6/2T	5.6×3×0.9	● Warm White	2700	17	80	2.9~3.6

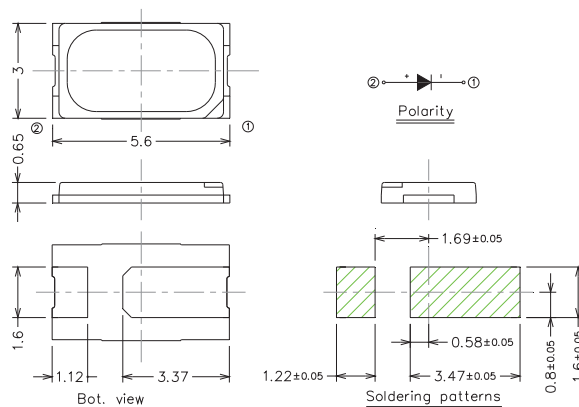
0.5W / 150mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 150mA	CRI (min.)	Forward Voltage (V)
62-217B/QK2C-S6565R1R3B4Z215/2T	5.6×3×0.9	○ Cool White	6500	55	75	2.8~3.5
62-217B/QK2C-S5757R1R3B4Z215/2T	5.6×3×0.9	○ Cool White	5700	55	75	2.8~3.5
62-217B/QK2C-S5050R1R3B4Z215/2T	5.6×3×0.9	○ Cool White	5000	55	75	2.8~3.5
62-217B/KK2C-S6565QAR3B4Z215/2T	5.6×3×0.9	○ Cool White	6500	50	80	2.8~3.5
62-217B/KK2C-S5757QAR3B4Z215/2T	5.6×3×0.9	○ Cool White	5700	50	80	2.8~3.5
62-217B/KK2C-S5050QAR3B4Z215/2T	5.6×3×0.9	○ Cool White	5000	50	80	2.8~3.5
62-217B/KK2C-S4040QAR2B4Z215/2T	5.6×3×0.9	○ Neutral White	4000	50	80	2.8~3.5
62-217B/KK2C-S3030QAR2B4Z215/2T	5.6×3×0.9	● Warm White	3000	50	80	2.8~3.5
62-217B/KK2C-S2727PBR1B4Z215/2T	5.6×3×0.9	● Warm White	2700	45	80	2.8~3.5

Low Middle Power LED ■ 62-217D Series (5630 package, 0.2W / 0.5W)



UNIT : mm



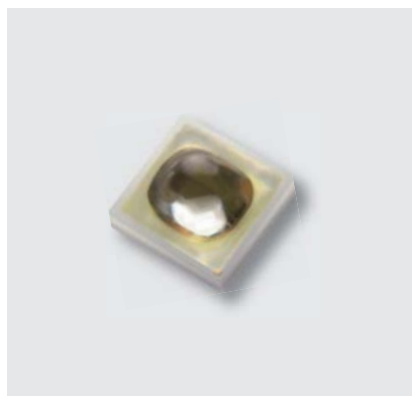
0.2W / 60mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 60mA	CRI (min.)	Forward Voltage (V)
62-217D/QK2C-S6565M3N4B2Z6/2T	5.6×3×0.65	○ Cool White	6500	21	75	2.9~3.6
62-217D/QK2C-S5757M3N4B2Z6/2T	5.6×3×0.65	○ Cool White	5700	21	75	2.9~3.6
62-217D/QK2C-S5050M3N4B2Z6/2T	5.6×3×0.65	○ Cool White	5000	21	75	2.9~3.6
62-217D/KK2C-S6565L8N3B2Z6/2T	5.6×3×0.65	○ Cool White	6500	18	80	2.9~3.6
62-217D/KK2C-S5757M3N3B2Z6/2T	5.6×3×0.65	○ Cool White	5700	21	80	2.9~3.6
62-217D/KK2C-S5050L9N3B2Z6/2T	5.6×3×0.65	○ Cool White	5000	19	80	2.9~3.6
62-217D/KK2C-S4040L8N3B2Z6/2T	5.6×3×0.65	○ Neutral White	4000	18	80	2.9~3.6
62-217D/KK2C-S3030L6M4B2Z6/2T	5.6×3×0.65	● Warm White	3000	17	80	2.9~3.6
62-217D/KK2C-S2727L6M4B2Z6/2T	5.6×3×0.65	● Warm White	2700	17	80	2.9~3.6

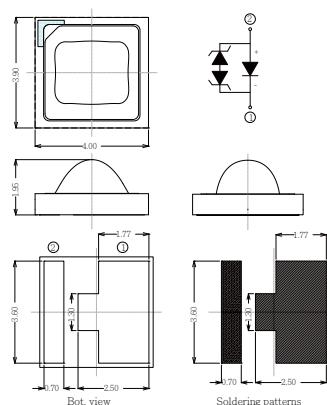
0.5W / 150mA

Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm) @ 150mA	CRI (min.)	Forward Voltage (V)
62-217D/QK2C-S6565R1R3B4Z215/2T	5.6×3×0.65	○ Cool White	6500	55	75	2.8~3.5
62-217D/QK2C-S5757R1R3B4Z215/2T	5.6×3×0.65	○ Cool White	5700	55	75	2.8~3.5
62-217D/QK2C-S5050R1R3B4Z215/2T	5.6×3×0.65	○ Cool White	5000	55	75	2.8~3.5
62-217D/KK2C-S6565QAR3B4Z215/2T	5.6×3×0.65	○ Cool White	6500	50	80	2.8~3.5
62-217D/KK2C-S5757R1R3B4Z215/2T	5.6×3×0.65	○ Cool White	5700	55	80	2.8~3.5
62-217D/KK2C-S5050QAR3B4Z215/2T	5.6×3×0.65	○ Cool White	5000	50	80	2.8~3.5
62-217D/KK2C-S4040QAR2B4Z215/2T	5.6×3×0.65	○ Cool White	4000	50	80	2.8~3.5
62-217D/KK2C-S3030QAR2B4Z215/2T	5.6×3×0.65	○ Neutral White	3000	50	80	2.8~3.5
62-217D/KK2C-S2727PBR1B4Z215/2T	5.6×3×0.65	○ Neutral White	2700	45	80	2.8~3.5

Flash LED ■ High Power Flash LED ■ Module Type



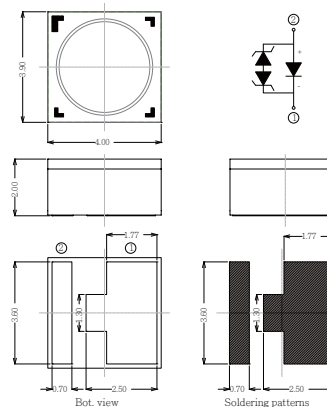
UNIT : mm



Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Illuminance (lx)	Forward Voltage (V)	I _F (mA)
ELYU03-5070J4J6294310-N0	4x3.9x1.95	○ White	5000~7000	220	2.95~4.35	1000



UNIT : mm

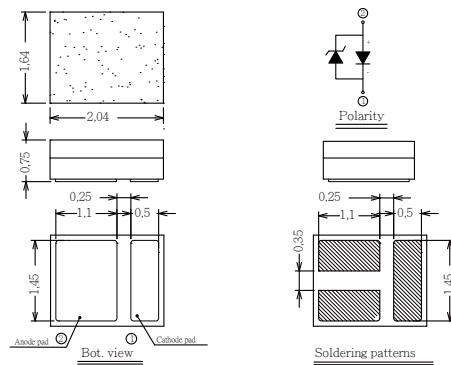


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lx)	Forward Voltage (V)	I _F (mA)
ELCU02-5070J6J7294310-N0	4x3.9x2	○ White	5000~7000	170	2.95~4.35	1000

Flash LED | High Power Flash LED | 2016 Package



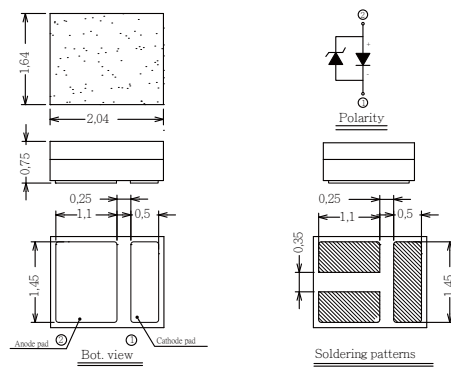
UNIT : mm



Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
EHP-C04/NT01H-P01/TR	2.04x1.64x0.75	○ White	4500~7000	85	2.95~4.15	500



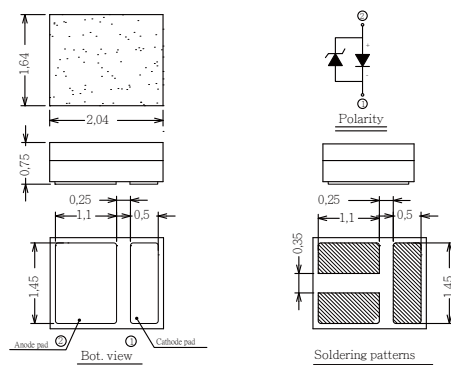
UNIT : mm



Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
EHP-C04/NT01A-P01/TR	2.04x1.64x0.75	○ White	4500~7000	160	2.95~4.35	1000

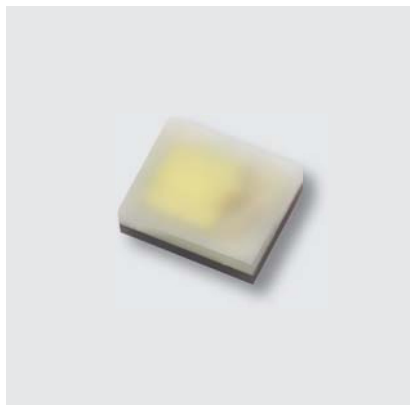


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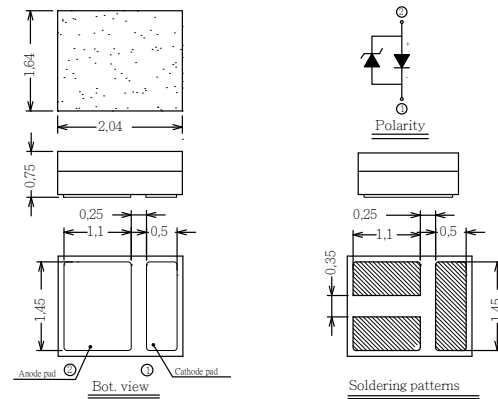


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
ELCH06-BJ4J6Z10-N0	2.04x1.64x0.75	○ White	4500~7000	200	2.95~4.35	1000

Flash LED ■ High Power Flash LED ■ 2016 Package



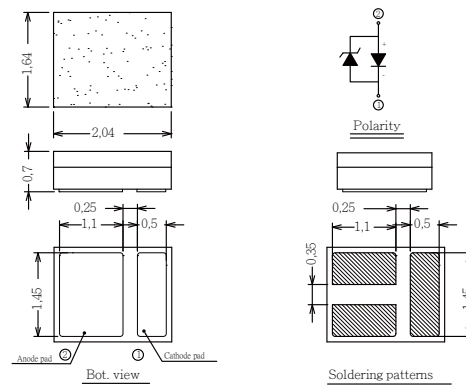
UNIT : mm



Product	Size (LxWxHmm)	Color	CCT (K)	Typ.Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
ELCH07-5070J6J7293910-N0	2.04x1.64x0.75	○White	5000~7000	240	2.95~3.95	1000

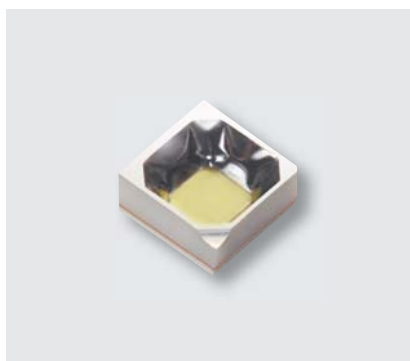


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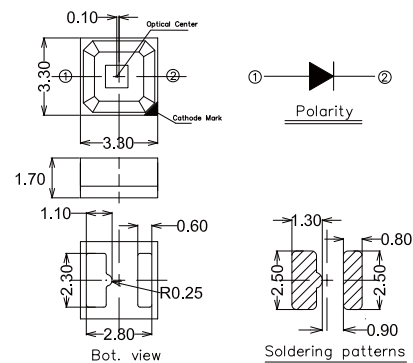


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
ELCH08-5070J7J8284110-N0	2.04x1.64x0.7	○White	5000~7000	300	2.85~4.15	1000

Flash LED ■ High Power Flash LED ■ 3333 Package

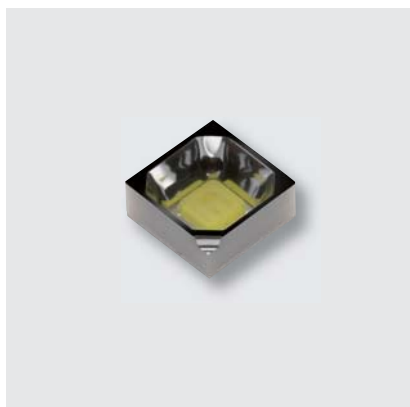


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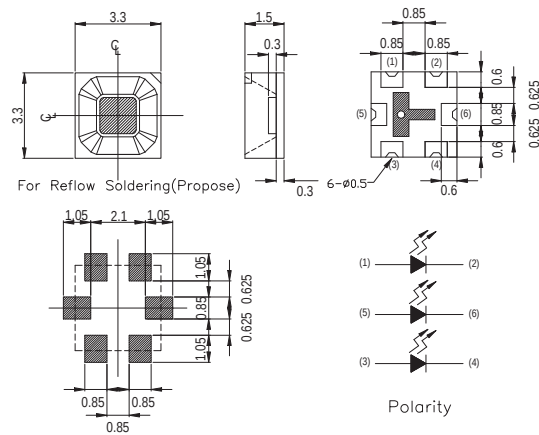


Product	Size (LxWxHmm)	Color	CCT (K)	Typ.Luminous Flux (lm)	Forward Voltage (V)	I _F (mA)
EHP-69/GT01C-P01/TR	3.3x3.3x1.7	○White	4500~7000	100	2.95~4.15	500

Flash LED ■ Low Power Flash LED ■ Triple Dice

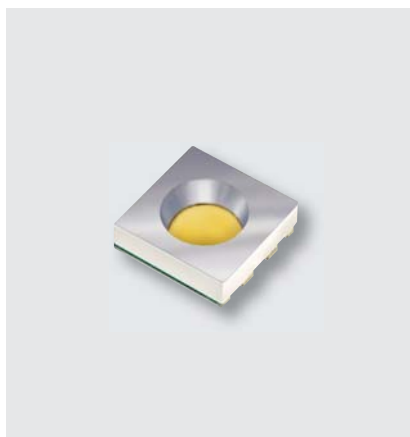


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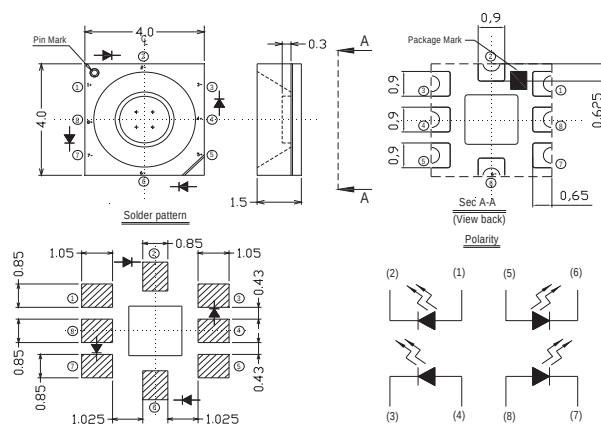


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Intensity (cd)	Forward Voltage (V)	I _F (mA)
69-23BUMD/TR8	3.3x3.3x1.5	○ White	5000~7000	11	2.7~3.7	20mA for each die

Flash LED ■ Low Power Flash LED ■ Four Dice



UNIT : mm

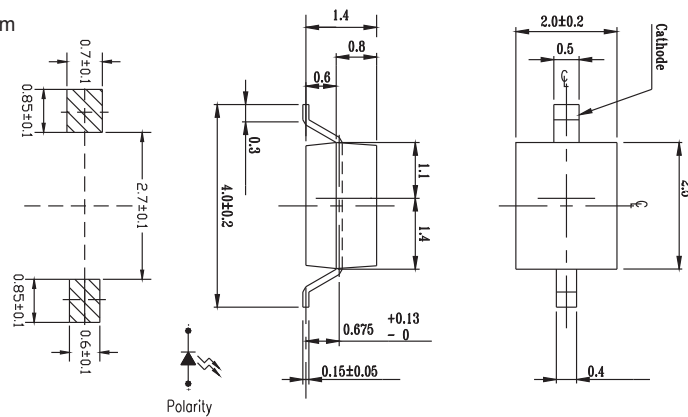


Product	Size (LxWxHmm)	Color	CCT (K)	Typ. Luminous Intensity (cd)	Forward Voltage (V)	I _F (mA)
59-146UTD/TR8	4x4x1.5	○ White	4500~7000	11	2.8~3.7	20mA for each die

SMD LED I Subminiature LED Lamps (Leadframe)



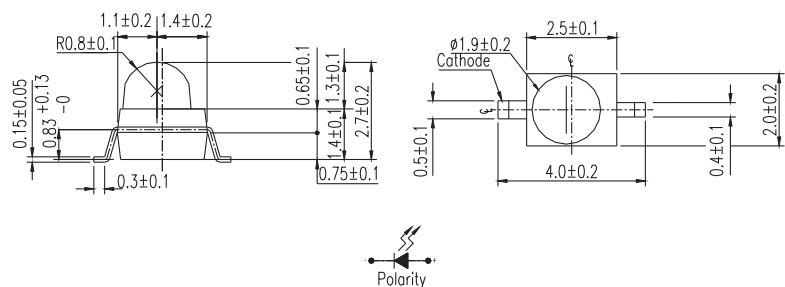
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Typ. (V)	V_F Max. (V)	I_F (mA)
28-21SDRC/S530-A3/TR8	2.5x2x1.4	Deep Red	639	20 / 27	N	1.7	2	2.4	20
28-21SURC/S530-A2/TR8	2.5x2x1.4	Hyper Red	624	11 / 26	N	N	2	2.4	20
28-21UYC/S530-A3/TR8	2.5x2x1.4	Super Yellow	589	21 / 33	N	N	2	2.4	20



UNIT : mm

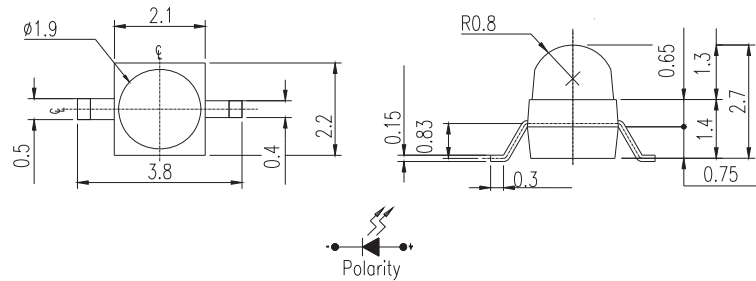


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Typ. (V)	V_F Max. (V)	I_F (mA)
91-21SUBC/S400-A4/TR7	2x2.5x2.7	Super Blue	470	400 / 500	N	N	3.5	4.3	20
91-21SUGC/S400-A4/TR7	2x2.5x2.7	Super Green	525	2000 / 2300	N	N	3.5	4.3	20
91-21SURC/S530-A6/TR7	2x2.5x2.7	Hyper Red	624	802 / 1232	N	N	2	2.4	20
91-21SYGC/S530-E4/TR7	2x2.5x2.7	Super Yellow Green	573	528 / 594	N	N	2	2.4	20
91-21UBC/C430/TR7	2x2.5x2.7	Blue	466	160 / 203	N	N	3.8	4.5	20
91-21USRC/S530-A4/TR7	2x2.5x2.7	Dark Red	631	344 / 578	N	N	2	2.4	20

SMD LED I Subminiature LED Lamps (Leadframe)



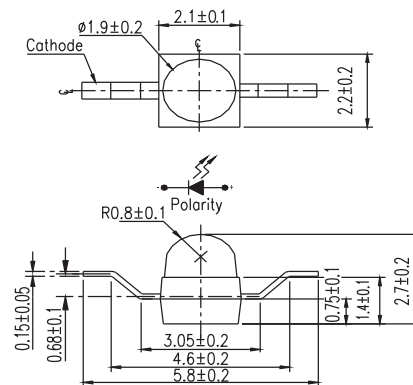
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Typ. (V)	V_F Max. (V)	I_F (mA)
95-21SUGC/S400-A4/TR7	2.1x2.2x2.7	● Super Green	525	2000 / 2300	N	N	3.5	4.3	20
95-21SYGC/S530-E2/TR7	2.1x2.2x2.7	● Brilliant Yellow Green	573	264 / 330	N	1.7	2	2.4	20
95-21USRD/S357/TR7	2.1x2.2x2.7	● Dark Red	631	45 / 100	N	N	2	2.4	20
95-21UYC/S530-A5/TR7	2.1x2.2x2.7	● Super Yellow	589	793 / 1156	N	N	2	2.4	20



UNIT : mm



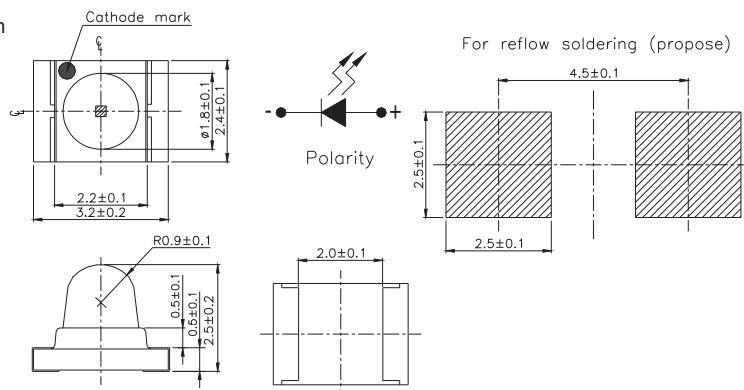
95-21F10/TR10

Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Typ. (V)	V_F Max. (V)	I_F (mA)
95-21SDRC/S530-A3/TR10	2.1x2.2x2.7	● Brilliant Red	639	330 / 495	N	1.7	2	2.4	20
95-21SUBC/S400-A5/TR10	2.1x2.2x2.7	● Super Blue	470	500 / 800	N	N	3.5	4.3	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View LED



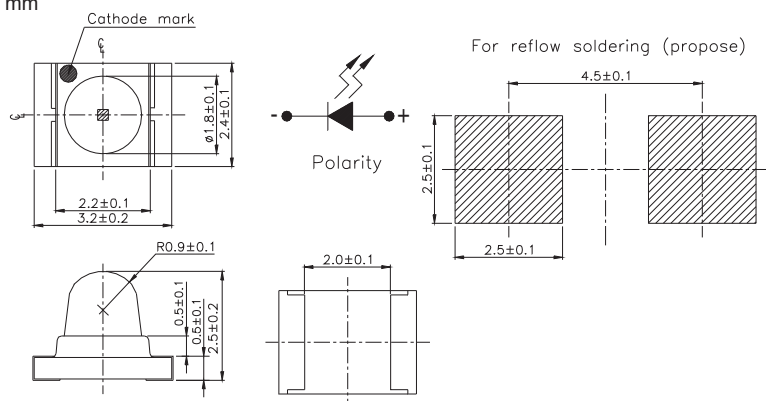
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
42-21/BHC-AUW/1T	3.2x2.4x2.5	● Blue	470	450	1800	2.7 / 3.3	3.7	20



UNIT : mm

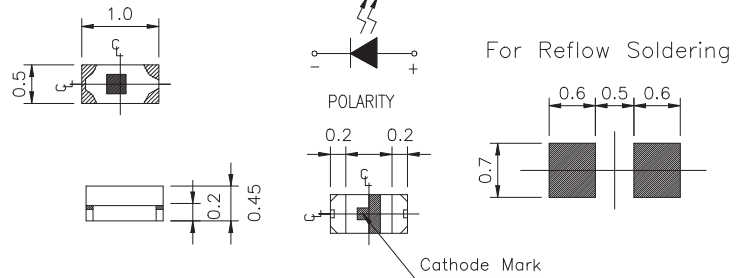


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
42-21A/BHC-ZV1W2N/1T	3.2x2.4x2.5	● Blue	470	715	1800	2.65	3.75	20
42-21A/GHC-YX1Y2N/1T	3.2x2.4x2.5	● Brilliant Green	525	1800	4500	2.7	3.7	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0402 (0.2T~0.5T)



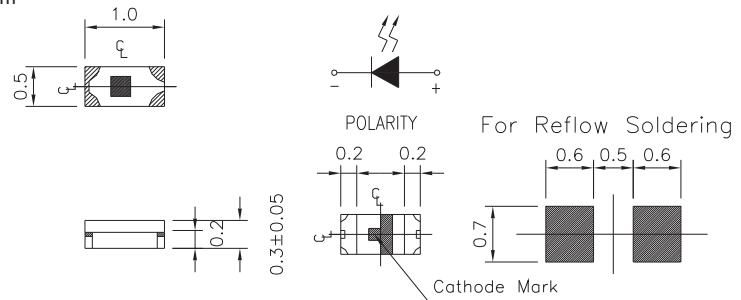
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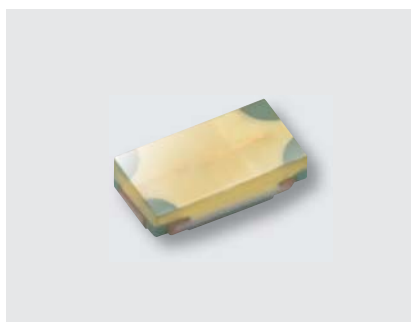
Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
16-213/BHC-AN1P2/3T	1x0.5x0.45	● Blue	470	28.5	72	2.7 / 3.3	3.7	20
16-213/BHC-ZL1M2QY/3T	1x0.5x0.45	● Blue	470	11.5	28.5	2.7	3.2	5
16-213/GHC-YR1S1/3T	1x0.5x0.45	● Brilliant Green	525	112	225	2.7 / 3.3	3.7	20
16-213/R6C-A2225VZ/3T	1x0.5x0.45	● Brilliant Red	624	20	40.5	1.7	2.2	10
16-213/T3D-AP1Q2QY/3T	1x0.5x0.45	○ Pure White	x=0.29, y=0.30	45	112	2.7	3.2	5
16-213/T7D-AQ1R1QY/3T	1x0.5x0.45	○ Pure White	x=0.29, y=0.30	72	140	2.7	3.2	5



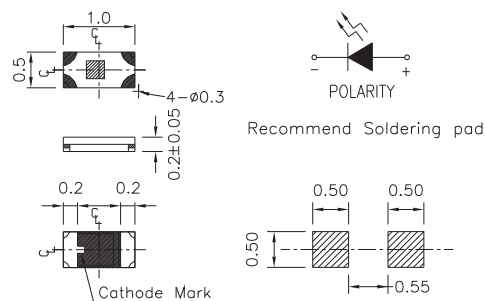
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
16-216/T3D-AQ1R2TY/3T	1x0.5x0.3	○ Pure White	x=0.29, y=0.30	72	180	2.6	3	5



UNIT : mm

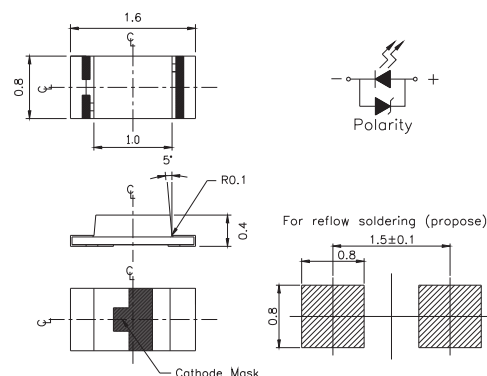


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
16-219A/T2D-AR2T1QY/3T	1x0.5x0.2	○ Pure White	x=0.29, y=0.30	140	360	2.7	3.2	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0603 (0.2T~0.8T)



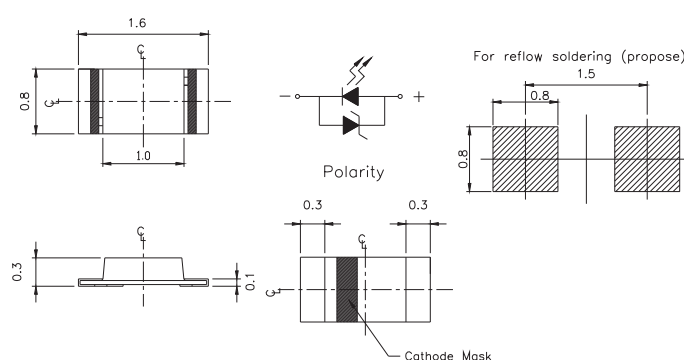
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-117/BHC-YJ2K2TX/3T	1.6x0.8x0.4	● Blue	470	5.8	11.5	2.6	3	2
19-117/BHC-ZL1M2RY/3T	1.6x0.8x0.4	● Blue	470	11.5	28.5	2.5	3.1	5
19-117/T1D-AP2Q2QY/3T	1.6x0.8x0.4	○ Pure White	x=0.274, y=0.226	57	112	2.7	3.2	5



UNIT : mm

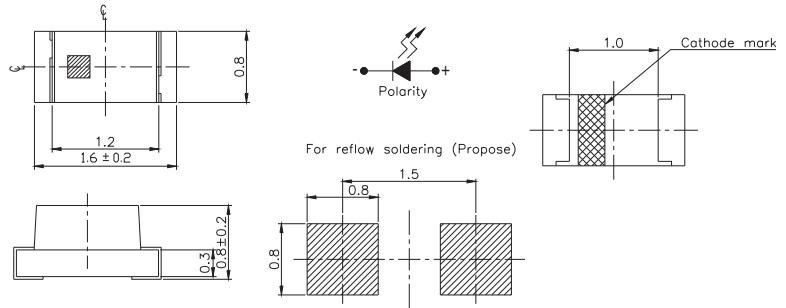


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-118/BHC-ZL1M2QY/3T	1.6x0.8x0.3	● Blue	470	11.5	28.5	2.7	3.2	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0603 (0.2T~0.8T)



UNIT : mm

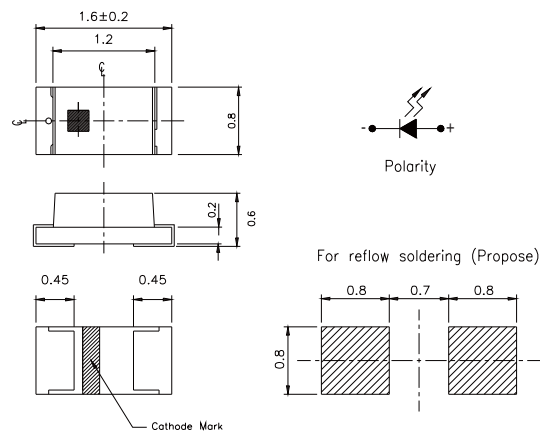


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./ Typ. (V)	V_F Max. (V)	I_F (mA)
19-21/B6C-AP2Q2M/3T	1.6x0.8x0.8	● Blue	470	57	112	2.75	3.95	20
19-21/BHC-AP1Q2/3T	1.6x0.8x0.8	● Blue	470	45	112	2.7 / 3.3	3.7	20
19-21/BHC-YL1M1RY/3T	1.6x0.8x0.8	● Blue	470	11.5	22.5	2.5	3.1	5
19-21/BHC-ZQ1R2N/3T	1.6x0.8x0.8	● Blue	470	72	180	2.7	3.7	20
19-21/G6C-AL1M2LY/3T	1.6x0.8x0.8	● Brilliant Yellow Green	573	11.5	28.5	1.7	2.3	5
19-21/G6C-FM1N2B/3T	1.6x0.8x0.8	● Brilliant Yellow Green	573	18	45	1.75	2.35	20
19-21/G6C-FP1Q1L/3T	1.6x0.8x0.8	● Brilliant Yellow Green	573	45	90	1.7	2.3	20
19-21/GHC-YN1P2QY/3T	1.6x0.8x0.8	● Brilliant Green	525	28.5	72	2.7	3.2	5
19-21/GPC-FL1M2B/3T	1.6x0.8x0.8	● Green	562	11.5	28.5	1.75	2.35	20
19-21/R6C-AL2N1VY/3T	1.6x0.8x0.8	● Brilliant Red	624	14.5	36	1.7	2.2	5
19-21/R6C-FP1Q2L/3T	1.6x0.8x0.8	● Brilliant Red	624	45	112	1.7	2.3	20
19-21/R7C-AK1L2BY/3T	1.6x0.8x0.8	● Deep Red	631	7.2	18	1.75	2.35	5
19-21/R7C-AN2Q1B/3T	1.6x0.8x0.8	● Deep Red	631	36	90	1.75	2.35	20
19-21/R8C-FN2Q1L/3T	1.6x0.8x0.8	● Deep Red	639	36	90	1.7	2.3	20
19-21/S2C-AL2M2VY/3T	1.6x0.8x0.8	● BrilliantOrange	605	14.5	28.5	1.7	2.2	5
19-21/S2C-AQ1R2B/3T	1.6x0.8x0.8	● BrilliantOrange	605	72	180	1.75	2.35	20
19-21/T1D-ANPHY/3T	1.6x0.8x0.8	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
19-21/T1D-CPQTY/3T	1.6x0.8x0.8	○ Pure White	x=0.274, y=0.226	45	112	2.6	3	5
19-21/W1D-ANPHY/3T	1.6x0.8x0.8	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
19-21/Y2C-AL1M2VY/3T	1.6x0.8x0.8	● Brilliant Yellow	589	11.5	28.5	1.7	2.2	5
19-21/Y2C-CP1Q2B/3T	1.6x0.8x0.8	● Brilliant Yellow	589	45	112	1.75	2.35	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0603 (0.2T~0.8T)



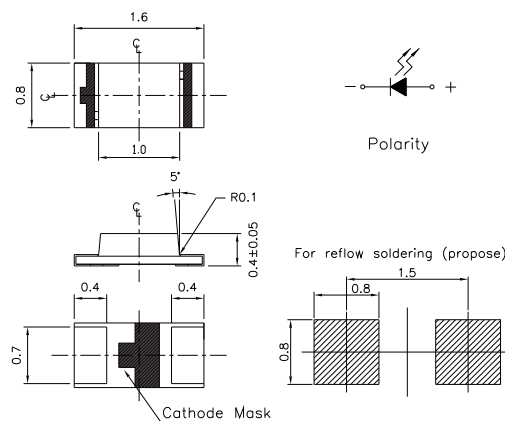
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-213A/T1D-CP2Q2HY/3T	1.6x0.8x0.6	○ Pure White	x=0.274, y=0.226	57	112	2.7	3.15	5



UNIT : mm

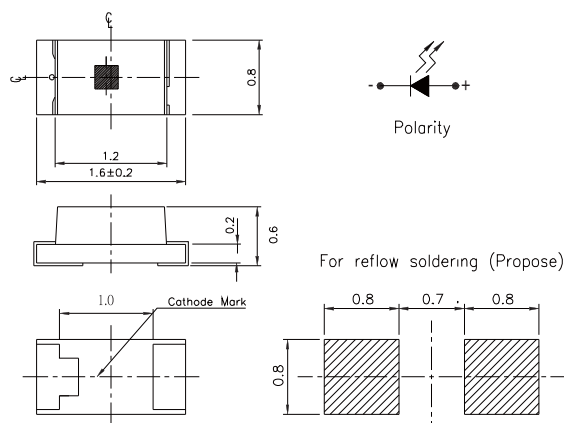


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-217/B9C-ANQE/3T	1.6x0.8x0.4	● Blue	470	28.5	112	2.75	3.65	20
19-217/BHC-AN1P2/3T	1.6x0.8x0.4	● Blue	470	28.5	72	2.7 / 3.3	3.7	20
19-217/BHC-XK1L2B11X/3T	1.6x0.8x0.4	● Blue	470	7.2	18	2.6	2.9	2
19-217/BHC-YL2M2TY/3T	1.6x0.8x0.4	● Blue	470	14.5	28.5	2.6	3	5
19-217/G7C-AL1M2B/3T	1.6x0.8x0.4	● Brilliant Yellow Green	573	11.5	28.5	1.75	2.35	20
19-217/GHC-YR1S2/3T	1.6x0.8x0.4	● Brilliant Green	525	112	285	2.7 / 3.3	3.7	20
19-217/R6C-P1Q2/3T	1.6x0.8x0.4	● Brilliant Red	624	45	112	1.7 / 2	2.4	20
19-217/S2C-AL1M2VY/3T	1.6x0.8x0.4	● Brilliant Orange	605	11.5	28.5	1.7	2.2	5
19-217/S3C-AL2N1VY/3T	1.6x0.8x0.4	● Reddish Orange	615	14.5	36	1.7	2.2	5
19-217/T1D-ANPHY/3T	1.6x0.8x0.4	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
19-217/T1D-JP1Q2QY/3T	1.6x0.8x0.4	○ Pure White	x=0.274, y=0.226	45	112	2.7	3.2	5
19-217/T7D-CS2T2B2/3T	1.6x0.8x0.4	○ Pure White	x=0.274, y=0.226	225	450	2.9	3.6	20
19-217/W1D-CPQTY/3T	1.6x0.8x0.4	○ Pure White	x=0.274, y=0.226	45	112	2.6	3	5
19-217/Y5C-AM1N1VY/3T	1.6x0.8x0.4	● Brilliant Yellow	589	16	40	1.65	2.25	5
19-217/Y5C-APQB/3T	1.6x0.8x0.4	● Brilliant Yellow	589	45	112	1.75	2.35	20
19-217/Y5C-AQ2R2/3T	1.6x0.8x0.4	● Brilliant Yellow	589	90	180	1.7 / 2	2.4	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0603 (0.2T~0.8T)

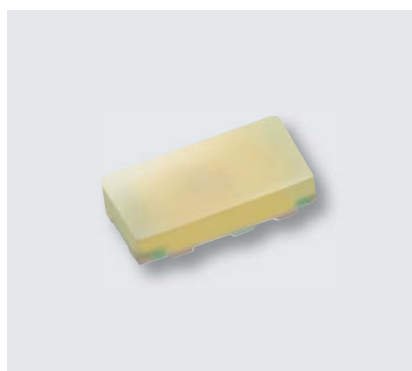


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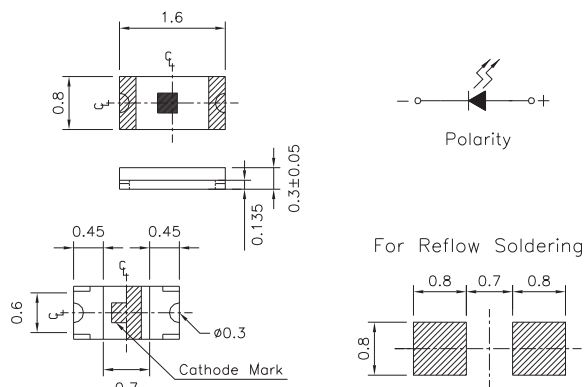


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-213 /Y2C-CQ1R2/3T	1.6x0.8x0.6	● Brilliant Yellow	589	72	180	1.7 / 2	2.4	20
19-213/B7C-AQ2S1B2/3T	1.6x0.8x0.6	● Blue	470	90	225	2.9	3.6	20
19-213/BHC-AN1P2/3T	1.6x0.8x0.6	● Blue	470	28.5	72	2.7 / 3.3	3.7	20
19-213/G6C-AP1Q2/3T	1.6x0.8x0.6	● Brilliant Yellow Green	573	45	112	2	2.4	20
19-213/G6C-BM1N2B/3T	1.6x0.8x0.6	● Brilliant Yellow Green	573	18	45	1.75	2.35	20
19-213/G6C-FN2Q1L/3T	1.6x0.8x0.6	● Brilliant Yellow Green	573	36	90	1.7	2.3	20
19-213/G6W-FN1P1B/3T	1.6x0.8x0.6	● Brilliant Yellow Green	573	28.5	57	1.75	2.35	20
19-213/GHC-XS1T1N/3T	1.6x0.8x0.6	● Brilliant Green	525	180	360	2.7	3.7	20
19-213/GHC-YP1Q2QY/3T	1.6x0.8x0.6	● Brilliant Green	525	45	112	2.7	3.2	5
19-213/GHC-YR1S2/3T	1.6x0.8x0.6	● Brilliant Green	525	112	285	3.5	4	20
19-213/R6C-AM2P1VY/3T	1.6x0.8x0.6	● Brilliant Red	624	22.5	57	1.7	2.2	5
19-213/R6C-AN1P2/3T	1.6x0.8x0.6	● Brilliant Red	624	28.5	72	1.7 / 2	2.4	20
19-213/R6C-AN2Q1B/3T	1.6x0.8x0.6	● Brilliant Red	624	36	90	1.75	2.35	20
19-213/R6C-AP1Q2B/3T	1.6x0.8x0.6	● Brilliant Red	624	45	112	1.75	2.35	20
19-213/R6C-AQ1R2B/3T	1.6x0.8x0.6	● Brilliant Red	624	72	180	1.75	2.35	20
19-213/R8C-FN1P2/3T	1.6x0.8x0.6	● Deep Red	639	28.5	72	1.7 / 2	2.4	20
19-213/S2C-AN1P2B/3T	1.6x0.8x0.6	● Brilliant Orange	605	28.5	72	1.75	2.35	20
19-213/S3C-AN2P2B/3T	1.6x0.8x0.6	● Reddish Orange	615	36	72	1.75	2.35	20
19-213/T1D-ANPHY/3T	1.6x0.8x0.6	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
19-213/Y2C-AP1Q2B/3T	1.6x0.8x0.6	● Brilliant Yellow	589	45	112	1.75	2.35	20
19-213/Y2C-CN1P2/3T	1.6x0.8x0.6	● Brilliant Yellow	589	28.5	72	1.7 / 2	2.4	20
19-213/Y2C-CP1Q2L/3T	1.6x0.8x0.6	● Brilliant Yellow	589	45	112	1.7	2.3	20
19-213/Y2C-CQ2R2L/3T	1.6x0.8x0.6	● Brilliant Yellow	589	90	180	1.7	2.3	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0603 (0.2T~0.8T)



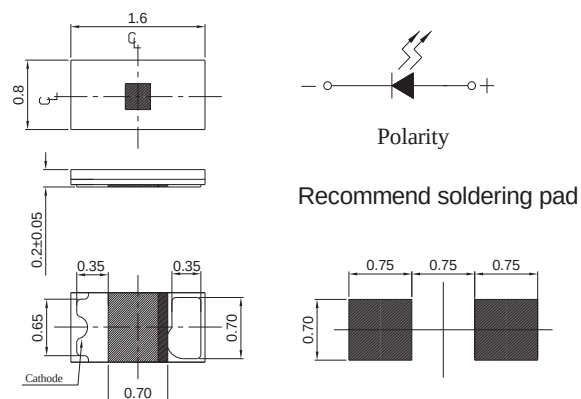
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-218/BHC-ZL1M2QY/3T	1.6x0.8x0.3	● Blue	470	11.5	28.5	2.7	3.2	5
19-218/GHC-YR1S2M/3T	1.6x0.8x0.3	● Brilliant Green	525	112	285	2.75	3.95	20
19-218/R6C-AL1M2VY/3T	1.6x0.8x0.3	● Brilliant Red	624	11.5	28.5	1.7	2.2	5
19-218/R6C-FM2P1B7Y/3T	1.6x0.8x0.3	● Brilliant Red	624	22.5	57	1.7	2	5
19-218/T1D-CQ2R2TY/3T	1.6x0.8x0.3	○ Pure White	x=0.274, y=0.226	90	180	2.6	3	5



UNIT : mm

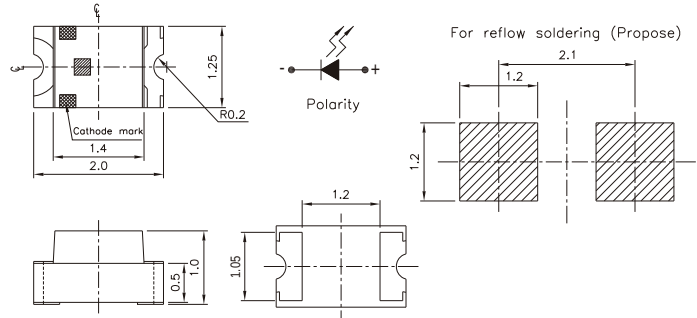


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-219/T3D-AQ2R2TY/3T	1.6x0.8x0.2	○ Pure White	x=0.274, y=0.226	90	180	2.6	3	5
19-219/T7D-AV1W1E/3T	1.6x0.8x0.2	○ Pure White	x=0.274, y=0.226	715	1420	2.75	3.65	20
19-219/Y5C-AM1N2VY/3T	1.6x0.8x0.2	● Brilliant Yellow	589	18	45	1.7	2.2	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 0805



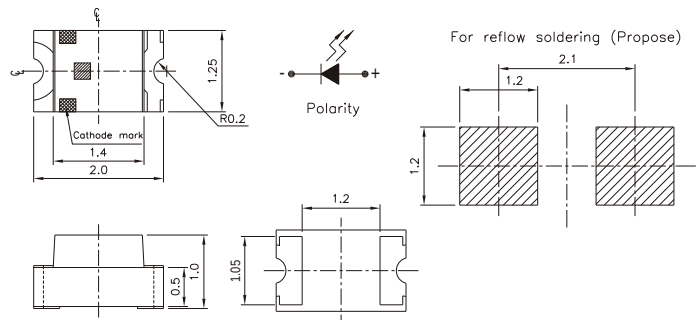
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
17-11/BHC-AN1P2/3T	2x1.25x1	Blue	470	28.5	72	2.7 / 3.3	3.7	20



UNIT : mm

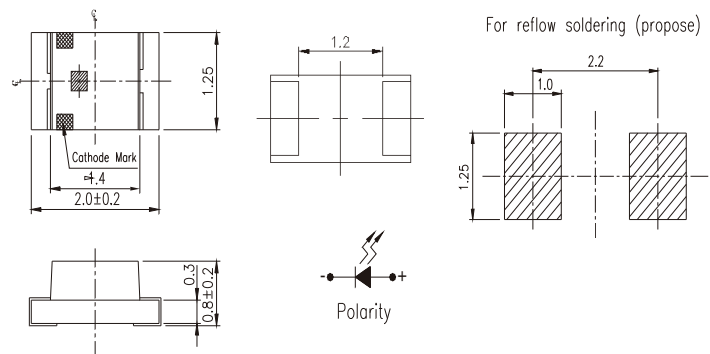


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
17-21/BHC-AN1P2/3T	2x1.25x1	Blue	470	28.5	72	3.5	4	20
17-21/BHC-AP1Q2/3T	2x1.25x1	Blue	470	45	112	2.7 / 3.3	3.7	20
17-21/BHC-XLMJY/3T	2x1.25x1	Blue	470	11.5	28.5	2.7	3.1	5
17-21/G6C-AN1P1B/3T	2x1.25x1	Brilliant Yellow Green	573	28.5	57	1.75	2.35	20
17-21/G6C-AP1Q1B/3T	2x1.25x1	Brilliant Yellow Green	573	45	90	1.75	2.35	20
17-21/G6C-FM1N2B/3T	2x1.25x1	Brilliant Yellow Green	573	18	45	1.75	2.35	20
17-21/G6C-FN1P2B/3T	2x1.25x1	Brilliant Yellow Green	573	28.5	72	1.75	2.35	20
17-21/G6C-FP1Q1B/3T	2x1.25x1	Brilliant Yellow Green	573	45	90	1.75	2.35	20
17-21/GHC-XS1T2M/3T	2x1.25x1	Brilliant Green	525	180	450	2.75	3.95	20
17-21/GHC-YR1S2/3T	2x1.25x1	Brilliant Green	525	112	285	3.5	4	20
17-21/GPC-AK0M1B/3T	2x1.25x1	Green	562	7.2	22.5	1.75	2.35	20
17-21/GVC-AMPB/3T	2x1.25x1	Green	565	18	72	1.75	2.35	20
17-21/R6C-AN2Q1B/3T	2x1.25x1	Brilliant Red	624	36	90	1.75	2.35	20
17-21/R6C-AP1Q2L/3T	2x1.25x1	Brilliant Red	624	45	112	1.7	2.3	20
17-21/R7C-AN2Q1B/3T	2x1.25x1	Deep Red	631	36	90	1.75	2.35	20
17-21/S2C-AN1P2B/3T	2x1.25x1	Brilliant Orange	605	28.5	72	1.75	2.35	20
17-21/S2C-AP1Q2B/3T	2x1.25x1	Brilliant Orange	605	45	112	1.75	2.35	20
17-21/T1D-ANPHY/3T	2x1.25x1	Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
17-21/T1D-CP2R1TY/3T	2x1.25x1	Pure White	x=0.274, y=0.226	57	140	2.6	3	5
17-21/T1D-KN2P2HY/3T	2x1.25x1	Pure White	x=0.274, y=0.226	36	72	2.7	3.15	5
17-21/W1D-APQHY/3T	2x1.25x1	Pure White	x=0.274, y=0.226	45	112	2.7	3.15	5
17-21/Y2C-AN1P2/3T	2x1.25x1	Brilliant Yellow	589	28.5	72	1.7 / 2	2.4	20
17-21/Y2C-CN1P2B/3T	2x1.25x1	Brilliant Yellow	589	28.5	72	1.75	2.35	20
17-21/Y2C-CP2Q2B/3T	2x1.25x1	Brilliant Yellow	589	57	112	1.75	2.35	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View 0805

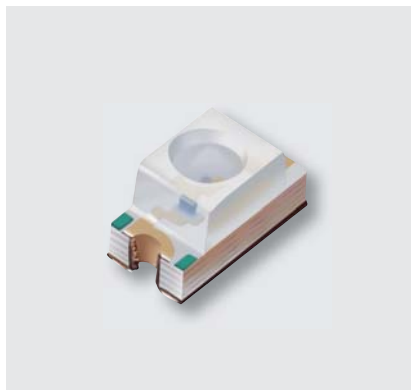


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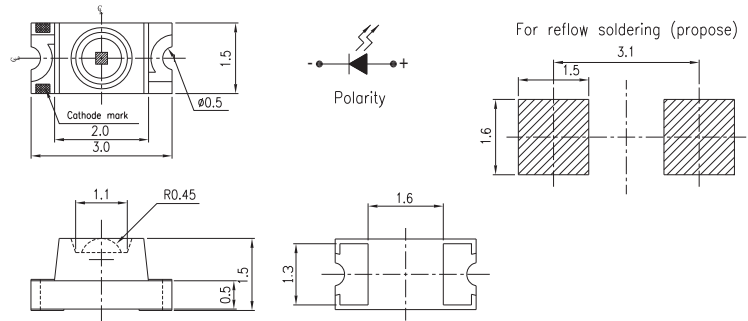


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
17-215/B6C-YP2R2/3T	2x1.25x0.8	Blue	470	57	180	2.7 / 3.0	3.7	20
17-215/BHC-AN1P2/3T	2x1.25x0.8	Blue	470	28.5	72	2.7 / 3.3	3.7	20
17-215/BHC-BP2Q2M/3T	2x1.25x0.8	Blue	470	57	112	2.75	3.95	20
17-215/G6C-BM1N2L/3T	2x1.25x0.8	Brilliant Yellow Green	573	18	45	1.7	2.3	20
17-215/G6C-FN2P2B/3T	2x1.25x0.8	Brilliant Yellow Green	573	36	72	1.75	2.35	20
17-215/R6C-AQ1R2B/3T	2x1.25x0.8	Brilliant Red	624	72	180	1.75	2.35	20
17-215/S2C-AQ1R2B/3T	2x1.25x0.8	Brilliant Orange	605	72	180	1.75	2.35	20
17-215/S2C-CP2R1B/3T	2x1.25x0.8	Brilliant Orange	605	57	180	1.75	2.35	20

SMD LED | Surface Mount Chip LED (PCB) | Top View 1206



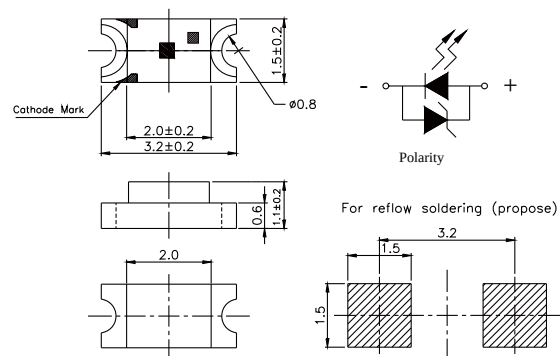
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
11-21/BHC-AP2R1/2T	3x1.5x1.5	Blue	470	57	140	3.5	4.3	20
11-21/BHC-YR1S1/2T	3x1.5x1.5	Blue	470	112	225	2.7 / 3.3	3.7	20
11-21/G6C-BQ1R2B/2T	3x1.5x1.5	Brilliant Yellow Green	573	72	180	1.75	2.35	20
11-21/G6C-FN2P2B/2T	3x1.5x1.5	Brilliant Yellow Green	573	36	72	1.75	2.35	20
11-21/GHC-YT1U2/2T	3x1.5x1.5	Brilliant Green	525	285	715	3.5 / 4.3	--	20
11-21/R6C-AP1Q2LZ/2T	3x1.5x1.5	Brilliant Red	624	45	112	1.7	2.3	10
11-21/R6C-AR2S2B/2T	3x1.5x1.5	Brilliant Red	624	140	285	1.75	2.35	20
11-21/Y2C-CP2Q2B/2T	3x1.5x1.5	Brilliant Yellow	589	57	112	1.75	2.35	20



UNIT : mm

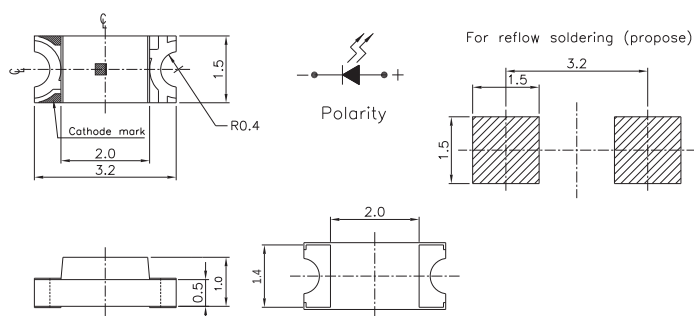


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
15-11/BHC-AN1P2/2T	3.2x1.5x1	Blue	470	28.5	72	2.7 / 3.3	3.7	20
15-11/BHC-ZL2N1QY/2T	3.2x1.5x1	Blue	470	14.5	36	2.7	3.2	5
15-11/W1D-APQHY/2T	3.2x1.5x1	○ Pure White	x=0.274, y=0.226	45	112	2.7	3.15	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 1206



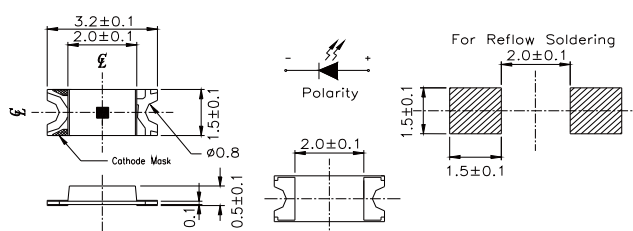
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
15-21/B6C-YR1S2B2/2T	3.2x1.5x1	Blue	470	112	285	2.9	3.6	20
15-21/B6C-ZQ1R1N/2T	3.2x1.5x1	Blue	470	72	140	2.7	3.7	20
15-21/BHC-AN1P2/2T	3.2x1.5x1	Blue	470	28.5	72	2.7 / 3.3	3.7	20
15-21/G6C-BK1L2VY/2T	3.2x1.5x1	Brilliant Yellow Green	573	7.2	18	1.7	2.2	5
15-21/G6C-FM1N2B/2T	3.2x1.5x1	Brilliant Yellow Green	573	18	45	1.75	2.35	20
15-21/G6C-FP1Q1L/2T	3.2x1.5x1	Brilliant Yellow Green	573	45	90	1.7	2.3	20
15-21/GHC-R2S2/2T	3.2x1.5x1	Brilliant Green	525	140	285	2.7 / 3.3	3.7	20
15-21/GHC-YR1S1/2T	3.2x1.5x1	Brilliant Green	525	112	225	3.5	3.7	20
15-21/R6C-AN1P2/2T	3.2x1.5x1	Brilliant Red	624	28.5	72	1.7 / 2	2.4	20
15-21/R6C-FQ1R1B/2T	3.2x1.5x1	Brilliant Red	624	72	140	1.75	2.35	20
15-21/S2C-AL2M2VY/2T	3.2x1.5x1	Brilliant Orange	605	14.5	28.5	1.7	2.2	5
15-21/S2C-AQ2R2B/2T	3.2x1.5x1	Brilliant Orange	605	90	180	1.75	2.35	20
15-21/S3C-AP1Q2/2T	3.2x1.5x1	Reddish Orange	615	45	112	1.7 / 2.0	2.4	20
15-21/T1D-CP1Q2TY/2T	3.2x1.5x1	Pure White	x=0.274, y=0.226	45	112	2.6	3	5
15-21/T7D-JQ2S1PY/2T	3.2x1.5x1	Pure White	x=0.274, y=0.226	90	225	2.7	3.3	5
15-21/W1D-APQHY/2T	3.2x1.5x1	Pure White	x=0.274, y=0.226	45 / 72	112	2.7 / 2.9	3.15	5
15-21/Y2C-AN1P2/2T	3.2x1.5x1	Brilliant Yellow	589	28.5	72	1.7 / 2	2.4	20
15-21/Y2C-CP1Q2B/2T	3.2x1.5x1	Brilliant Yellow	589	45	112	1.75	2.35	20



UNIT : mm

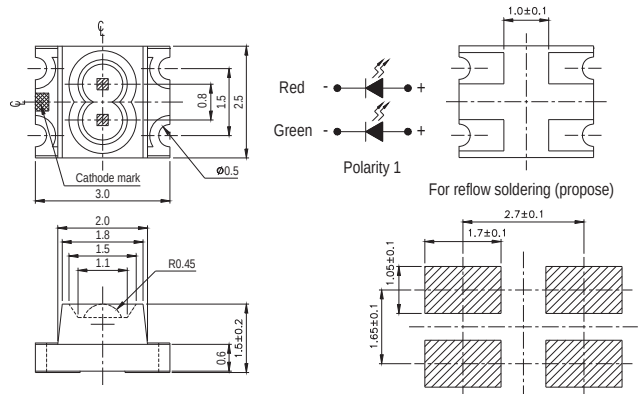


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
15-215/G7C-BN1P2B/2T	3.2x1.5x0.5	Brilliant Yellow Green	573	28.5	72	1.75	2.35	20
15-215/R6C-AM2P1VY/2T	3.2x1.5x0.5	Brilliant Red	624	22.5	57	1.7	2.2	5
15-215/R6C-AP1Q1L/2T	3.2x1.5x0.5	Brilliant Red	624	45	90	1.7	2.3	20

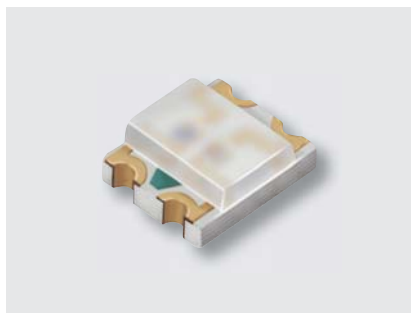
SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



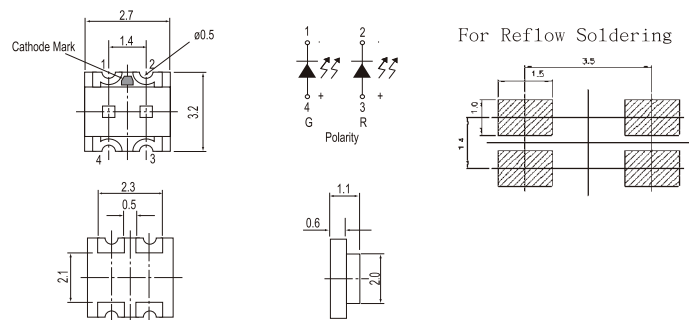
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
11-22/R6G6C-A01/2T	3x2.5x1.5	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 140 G6 : 45	R6 : 225 G6 : 72	1.7 / 2	2.4	20
11-22/R6G6C-QSANP/2T	3x2.5x1.5	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 72 G6 : 28.5	R6 : 285 G6 : 72	2	2.4	20
11-22/R6SGAC-A30/2T	3x2.5x1.5	● Brilliant Red ● Brilliant Yellow Green	R6S : 624 SG : 565	R6S : 450 SG : 715	R6S : 1120 SG : 1800	R6S : 1.7 / 2 SG : 2.7 / 3.3	R6S : 2.4 SG : 3.7	20



UNIT : mm

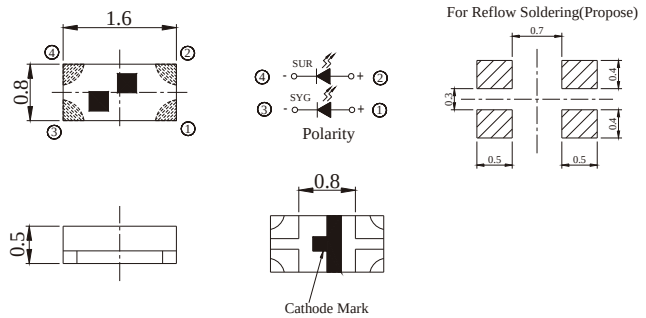


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
15-22/R6G6C-A32/2T	3.2x2.7x1.1	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 28.5 G6 : 28.5	R6 : 72 G6 : 72	R6 : 1.7 / 2 G6 : 1.7 / 2	R6 : 2.4 G6 : 2.4	20
15-22/R6GHC-A01/2T	3.2x2.7x1.1	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 GH : 525	R6 : 90 / 130 GH : 112 / 165	--	R6 : 1.7 / 2 GH : 2.7 / 3.3	R6 : 2.4 GH : 3.7	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View Bi-Color



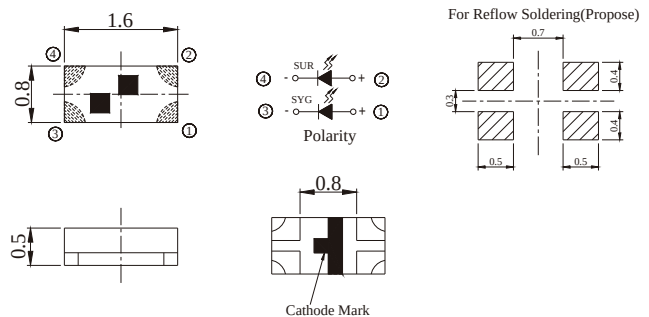
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
18-225/B6R6C-C01/3T	1.6x0.8x0.5	Blue Brilliant Red	B6 : 470 R6 : 624	B6 : 18 / 28.5 R6 : 18 / 28.5	-	B6 : 2.7 / 3.3 R6 : 1.7 / 2.0	B6 : 3.7 R6 : 2.4	5
18-225/R6G6C-A01/3T	1.6x0.8x0.5	Brilliant Red Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 45 G6 : 28.5	R6 : 112 G6 : 72	R6 : 1.7 / 2 G6 : 1.7 / 2	R6 : 2.4 G6 : 2.4	20
18-225/S2G6C-A01/3T	1.6x0.8x0.5	Brilliant Orange Brilliant Yellow Green	S2 : 605 G6 : 573	S2 : 32 / 48 G6 : 16 / 24	-	S2 : 1.7 / 2 G6 : 1.7 / 2	S2 : 2.4 G6 : 2.4	20



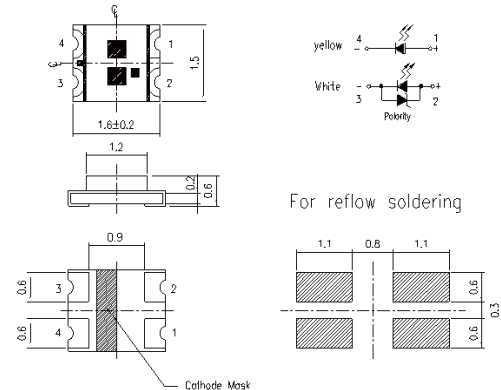
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
18-225A/R6GHW-B01/3T	1.6x0.8x0.5	Brilliant Red Brilliant Green	R6 : 624 GH : 525	R6 : 28.5 GH : 72	R6 : 72 GH : 180	R6 : 1.7 / 2 GH : 2.7 / 3.3	R6 : 2.4 GH : 3.7	10



UNIT : mm

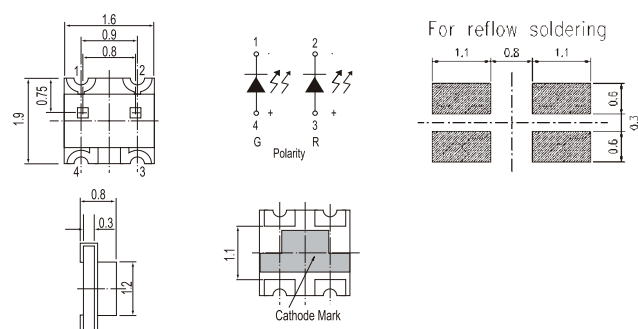


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-123/Y2ST1D-C30/2T	1.6x1.5x0.6	Brilliant Yellow Pure White	Y2S : 589 x=0.274, y=0.226	Y2S : 28.5 T1 : 45	Y2S : 72 T1 : 112	Y2S : 1.7 / 2 T1 : 2.7 / 3.3	Y2S : 2.4 T1 : 3.7	5

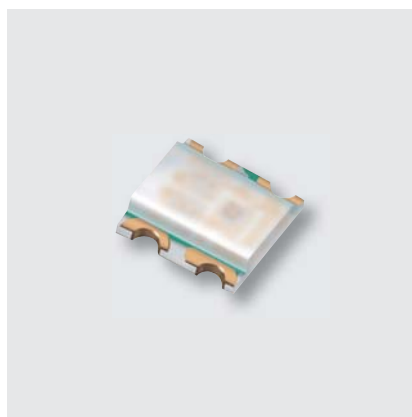
SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



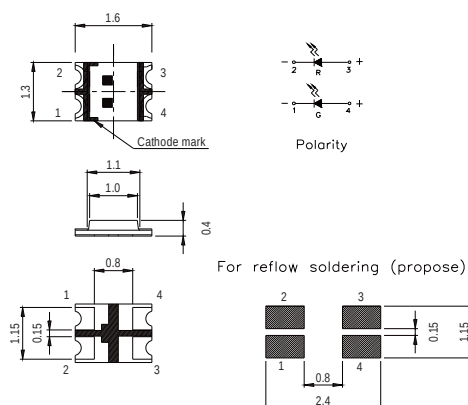
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-22/G6R6C-A31/2T	1.9x1.6x0.8	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 45 G6 : 22.5	R6 : 90 G6 : 57	R6 : 1.7 / 2 G6 : 1.7 / 2	R6 : 2.4 G6 : 2.4	20
19-22/R6BHC-B01/2T	1.9x1.6x0.8	● Brilliant Red ● Blue	R6 : 624 BH : 470	R6 : 14.5 / 20 BH : 14.5 / 20	—	R6 : 1.9 BH : 2.9	R6 : 2.3 BH : 3.3	5
19-22/R6G6C-A01/2T	1.9x1.6x0.8	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 45 G6 : 45	R6 : 72 G6 : 72	R6 : 1.7 / 2 G6 : 1.7 / 2	R6 : 2.4 G6 : 2.4	20
19-22/R6GHC-C02/2T	1.9x1.6x0.8	● Brilliant Red ● Brilliant Green	R6 : 624 GH : 525	R6 : 14.5 / 20 GH : 45 / 65	—	R6 : 1.9 GH : 2.9	R6 : 2.3 GH : 3.4	5
19-22/Y2G6C-A14/2T	1.9x1.6x0.8	● Brilliant Yellow Green ● Brilliant Yellow	G6 : 573 Y2 : 589	G6 : 28.5 Y2 : 45	G6 : 72 Y2 : 112	G6 : 1.7 / 2 Y2 : 1.7 / 2	G6 : 2.4 Y2 : 2.4	20



UNIT : mm

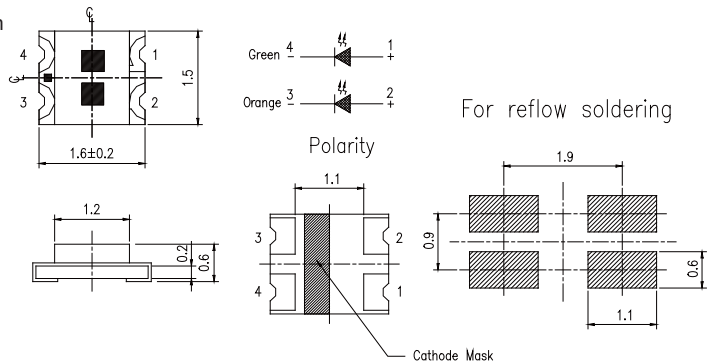


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max./Typ. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-226/R6BHC-B01/2T	1.6x1.3x0.4	● Brilliant Red ● Blue	R6 : 624 BH : 470	R6 : 72 BH : 45	Tye. R6 : 100 BH : 80	R6 : 1.7 / 2 BH : 2.7 / 3.3	R6 : 2.4 BH : 3.7	20
19-226/R6G7C-B02/2T	1.6x1.3x0.4	● Brilliant Red ● Brilliant Yellow Green	R6 : 624 G7 : 573	R6 : 22.5 G7 : 7.2	Max. R6 : 57 G7 : 18	R6 : 1.7 / 2 G7 : 1.7 / 2	R6 : 2.4 G7 : 2.4	10
19-226/R6GHC-A03/2T	1.6x1.3x0.4	● Brilliant Red ● Brilliant Green	R6 : 624 GH : 525	R6 : 72 GH : 112	Max. R6 : 140 GH : 225	R6 : 1.7 / 2 GH : 2.7 / 3.3	R6 : 2.4 GH : 3.7	20

SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View Bi-Color

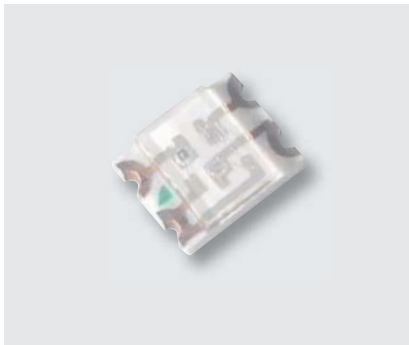


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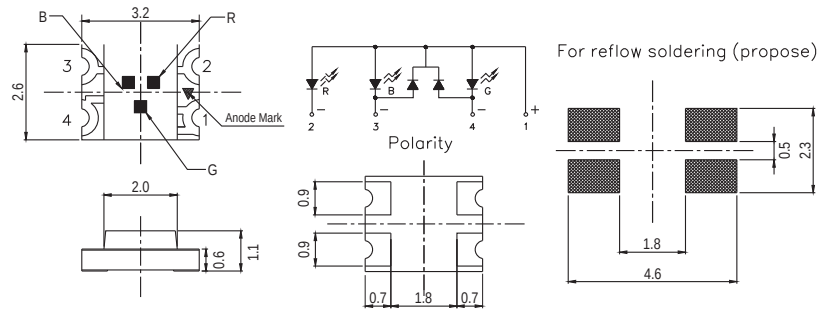


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-223/G6S2C-A01/2T	1.6x1.5x0.6	Brilliant Orange Brilliant Yellow Green	S2 : 605 G6 : 573	S2 : 112 G6 : 28.5	S2 : 140 G6 : 45	S2 : 2 G6 : 2	S2 : 2.4 G6 : 2.4	20
19-223/R6BHC-A05/2T	1.6x1.5x0.6	Brilliant Red Blue	R6 : 624 BH : 470	R6 : 72 BH : 36	R6 : 180 BH : 72	R6 : 1.7 / 2 BH : 2.7 / 3.3	R6 : 2.4 BH : 3.7	20
19-223/R6G6C-A01/2T	1.6x1.5x0.6	Brilliant Red Brilliant Yellow Green	R6 : 624 G6 : 573	R6 : 72 G6 : 22.5	R6 : 180 G6 : 57	R6 : 1.7 / 2 G6 : 1.7 / 2	R6 : 2.4 G6 : 2.4	20
19-223/R7BHC-A30/2T	1.6x1.5x0.6	Dark Red Blue	R7 : 631 BH : 470	R7 : 45 BH : 36	R7 : 112 BH : 90	R7 : 1.7 / 2 BH : 2.7 / 3.3	R7 : 2.4 BH : 2.7 / 3.7	20
19-223/R7G6C-A01/2T	1.6x1.5x0.6	Dark Red Brilliant Yellow Green	R7 : 631 G6 : 573	R7 : 18 G6 : 18	R7 : 72 G6 : 72	R7 : 2 G6 : 2	R7 : 2.4 G6 : 2.4	20
19-223/S2BHC-A01/2T	1.6x1.5x0.6	Brilliant Orange Blue	S2 : 605 BH : 470	S2 : 72 BH : 36	S2 : 140 BH : 72	S2 : 1.7 / 2 BH : 3	S2 : 2.4 BH : 3.5	20
19-223/S2T1D-C30/2T	1.6x1.5x0.6	Brilliant Orange Pure White	S2 : 605 x=0.274, y=0.226	S2 : 18 T1 : 45	S2 : 45 T1 : 112	S2 : 1.55 T1 : 2.7	S2 : 2.15 T1 : 3.3	5
19-223/Y2G6C-A01/2T	1.6x1.5x0.6	Brilliant Yellow Green Brilliant Yellow	G6 : 573 Y2 : 589	G6 : 28.5 Y2 : 36	G6 : 57 Y2 : 72	G6 : 1.7 / 2 Y2 : 1.7 / 2	G6 : 2.4 Y2 : 2.4	20

SMD LED | Surface Mount Chip LED (PCB) | Top View Full Color



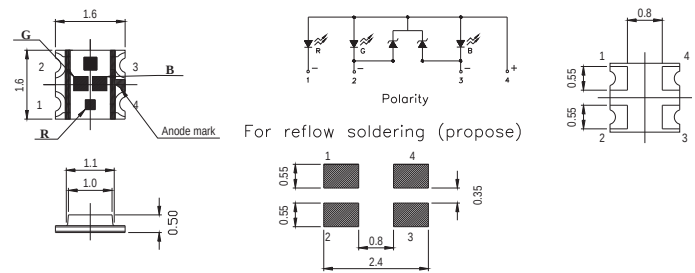
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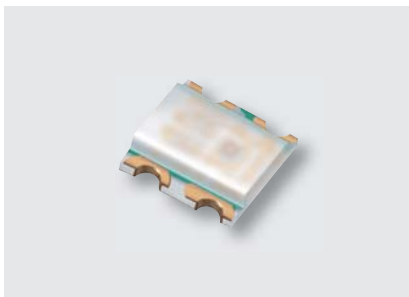
Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
15-13D/R6GHBHC-A01/2T	3.2x2.6x1.1	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 45 / 70 R6 : 90 / 140 GH : 112 / 180	—	BH : 2.7 / 3.3 R6 : 1.7 / 2 GH : 2.7 / 3.3	BH : 3.7 R6 : 2.4 GH : 3.7	20



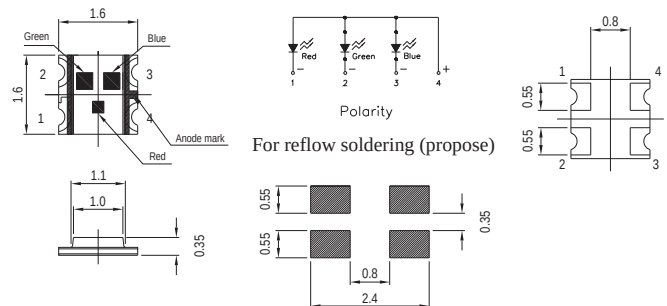
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-137/R6GHBHC-A01/2T	1.6x1.6x0.5	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 28.5 / 50 R6 : 72 / 100 GH : 112 / 180	—	BH : 2.7 / 3.3 R6 : 1.7 / 2 GH : 2.7 / 3.3	BH : 3.7 R6 : 2.4 GH : 3.7	20

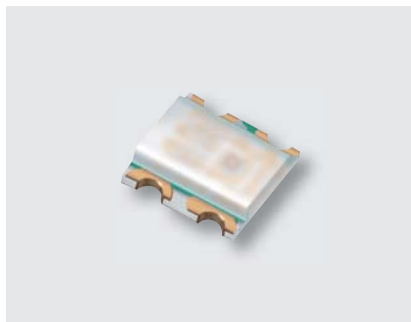


UNIT : mm

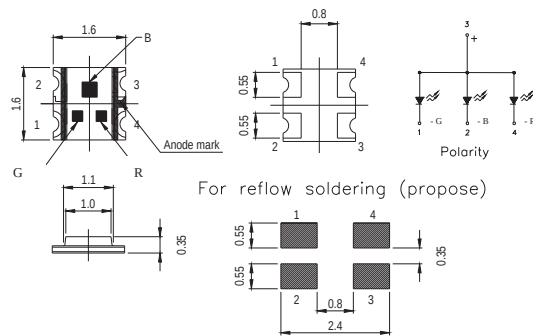


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-237/R6GHBHC-A04/2T	1.6x1.6x0.35	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 11.5 / 18 R6 : 18 / 30 GH : 28.5 / 60	—	BH : 2.6 R6 : 1.9 GH : 2.6	BH : 3 R6 : 2.2 GH : 3	5

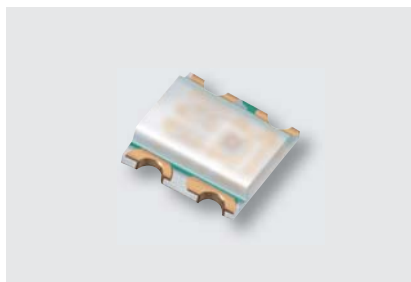
SMD LED ■ Surface Mount Chip LED (PCB) ■ Top View Full Color



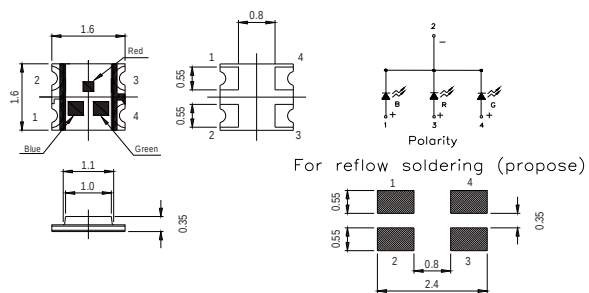
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-237A/BHR6GHC-A01/2T	1.6x1.6x0.35	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 28.5 / 50 R6 : 72 / 100 GH : 112 / 180	-	BH : 3.3 R6 : 2 GH : 3.3	BH : 3.9 R6 : 2.4 GH : 3.9	20



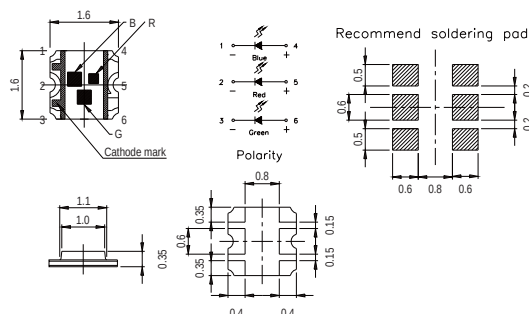
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-237B/R6GHBHC-C01/2T	1.6x1.6x0.35	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 11.5 / 18 R6 : 18 / 30 GH : 28.5 / 60	BH : 28.5 R6 : 57 GH : 112	BH : 2.6 / 3 R6 : 1.7 / 2 GH : 2.6 / 3	BH : 3.3 R6 : 2.2 GH : 3.3	5

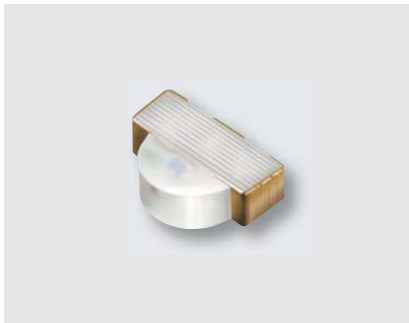


UNIT : mm

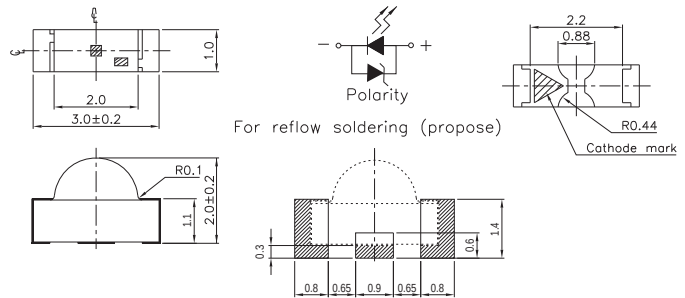


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
19-337/R6GHBHC-A01/2T	1.6x1.6x0.35	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 28.5 / 50 R6 : 72 / 100 GH : 112 / 180	-	BH : 3.3 R6 : 2.0 GH : 3.3	BH : 3.9 R6 : 2.4 GH : 3.9	20

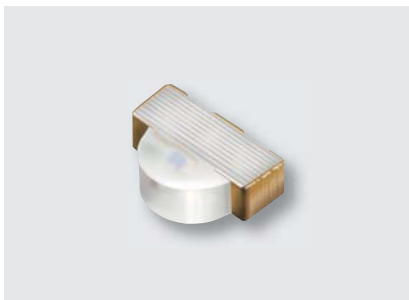
SMD LED ■ Surface Mount Chip LED (PCB) ■ Side View (0.2T~1.0T)



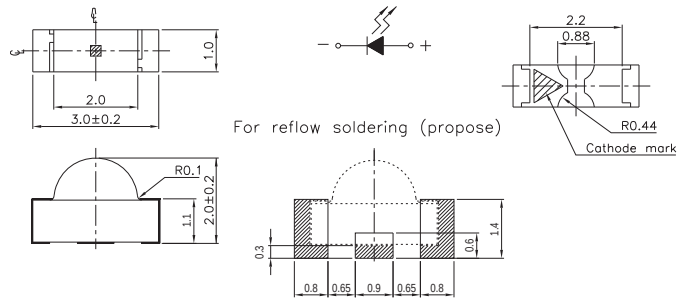
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
12-11/BHC-ZL1M2QY/2C	3x2x1	● Blue	470	11.5	28.5	2.7	3.2	5



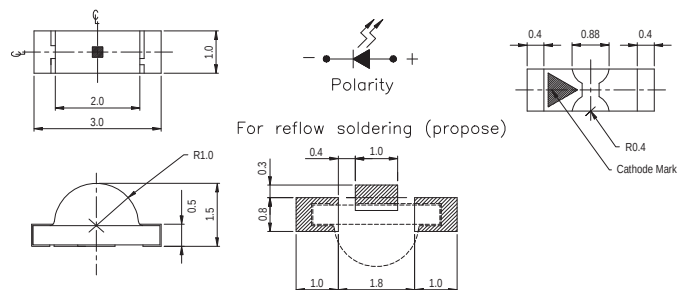
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
12-21/BHC-AN1P2/2C	3x2x1	● Blue	470	28.5	72	2.7 / 3.3	3.7	20
12-21/BHC-ZL1M2RY/2C	3x2x1	● Blue	470	11.5	28.5	2.5	3.1	5
12-21/GHC-YR2S2/2C	3x2x1	● Brilliant Green	525	140	285	3.5	4.3	20
12-21/R8C-AN1P2B/2D	3x2x1	● Deep Red	639	28.5	72	1.75	2.35	20
12-21/T3D-AQ2S2M/2C	3x2x1	○ Pure White	x=0.274, y=0.226	90	285	2.75	3.95	20



UNIT : mm

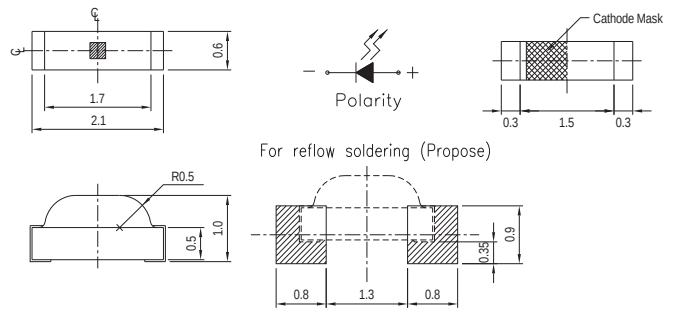


Product	Size (LxWxH mm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
12-21C/BHC-AN1P2/2C	3x1.5x1	● Blue	470	28.5	72	2.7 / 3.3	3.7	20
12-21C/BHC-YL1M2HY/2C	3x1.5x1	● Blue	470	11.5	28.5	2.7	3.15	5
12-21C/T3D-CP1Q2B12Y/2C	3x1.5x1	○ Pure White	x=0.274, y=0.226	45	112	2.7	3.4	5
12-21C/W1D-AR1S2/2C	3x1.5x1	○ Pure White	x=0.274, y=0.226	112	285	3.3	3.7	20

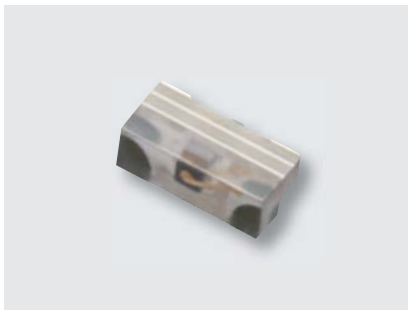
SMD LED ■ Surface Mount Chip LED (PCB) ■ Side View (0.2T~1.0T)



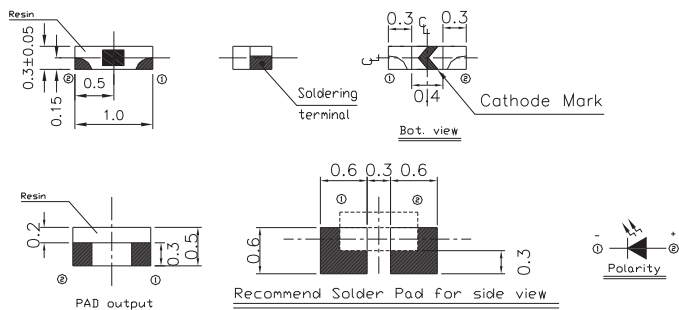
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
12-215/BHC-AN1P2/3C	2.1x1x0.6	● Blue	470	28.5	72	3.5	4	20
12-215/BHC-XL1M2HY/3C	2.1x1x0.6	● Blue	470	11.5	28.5	2.7	3.15	5
12-215/G6C-AL2M2B/3C	2.1x1x0.6	● Brilliant Yellow Green	573	14.5	28.5	1.75	2.35	20
12-215/G6C-BP1Q2L/3C	2.1x1x0.6	● Brilliant Yellow Green	573	45	112	1.7	2.3	20
12-215/R6C-AR1S1B/3C	2.1x1x0.6	● Brilliant Red	624	112	225	1.75	2.35	20
12-215/T1D-ANPHY/3C	2.1x1x0.6	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
12-215/W1D-ANPHY/3C	2.1x1x0.6	○ Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
12-215/Y2C-BR1S1L/3C	2.1x1x0.6	● Brilliant Yellow	589	112	225	1.7	2.3	20
12-215/Y2C-CP1Q2B/3C	2.1x1x0.6	● Brilliant Yellow	589	45	112	1.75	2.35	20
12-215/Y2C-CQ1R1B/3C	2.1x1x0.6	● Brilliant Yellow	589	72	140	1.75	2.35	20



UNIT : mm

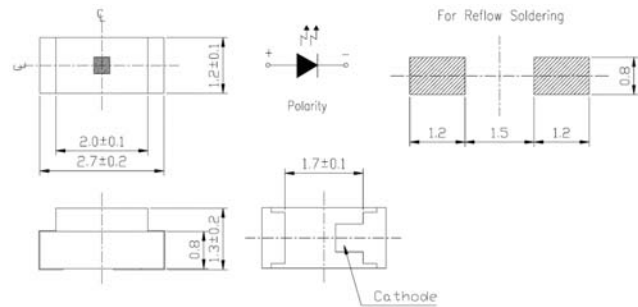


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
16-916/T1D-AP1Q2QY/3T	1x0.5x0.3	○ Pure White	x=0.274, y=0.226	45	112	2.7	3.2	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Side View (0.2T~1.0T)



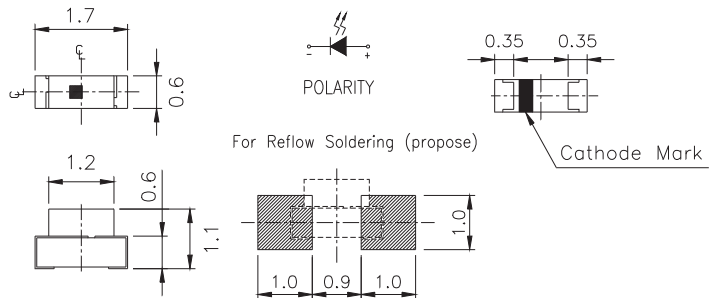
UNIT : mm



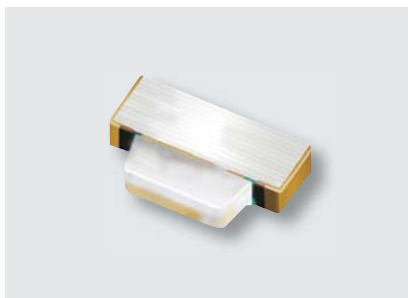
Product	Size (LxWxH mm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
22-21/BHC-AN1P2/2C	2.7x1.3x1.2	Blue	470	28.5	72	3.8	4.5	20
22-21/GHC-YR1S2/2C	2.7x1.3x1.2	Brilliant Green	525	112	285	2.7 / 3.3	3.7	20



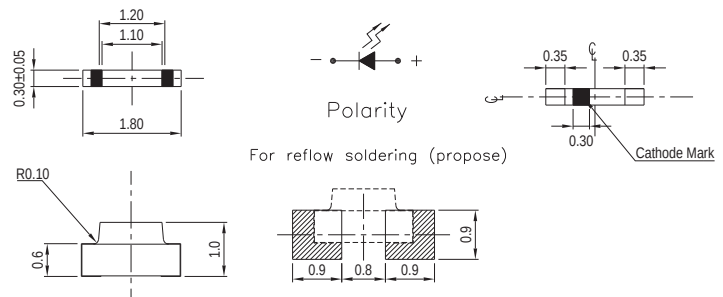
UNIT : mm



Product	Size (LxWxH mm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
27-21/BHC-AN1P2/3C	1.7x1.1x0.6	Blue	470	28.5	72	2.7 / 3.3	3.7	20
27-21/BHC-AP1Q2/3C	1.7x1.1x0.6	Blue	470	45	112	2.7 / 3.3	3.7	20
27-21/GHC-YR1S2M/3C	1.7x1.1x0.6	Brilliant Green	525	112	285	2.75	3.95	20
27-21/R6C-AP1Q2B/3C	1.7x1.1x0.6	Brilliant Red	624	45	112	1.75	2.35	20
27-21/S2C-FP1Q1L/3C	1.7x1.1x0.6	Brilliant Orange	605	45	90	1.7	2.3	20
27-21/T1D-ANPHY/3C	1.7x1.1x0.6	Pure White	x=0.274, y=0.226	28.5	72	2.7	3.15	5
27-21/T1D-CQ1R2NW/3C	1.7x1.1x0.6	Pure White	x=0.274, y=0.226	72	180	2.7	3.7	15
27-21/T3D-AP2Q2HY/3C	1.7x1.1x0.6	Pure White	x=0.274, y=0.226	57	112	2.7	3.15	5
27-21/W1D-APQHY/3C	1.7x1.1x0.6	Pure White	x=0.274, y=0.226	45	112	2.7	3.15	5
27-21/Y2C-CPQB/3D	1.7x1.1x0.6	Brilliant Yellow	589	45	112	1.75	2.35	20

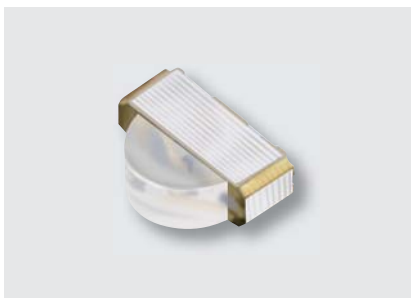


UNIT : mm

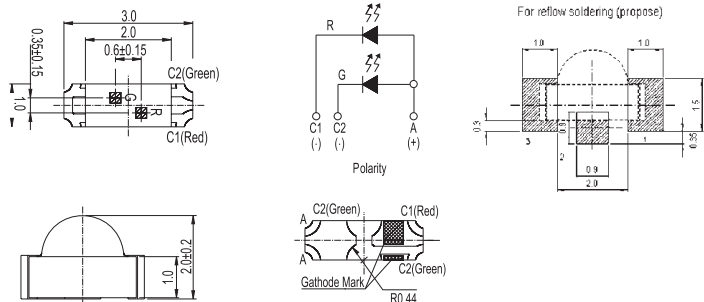


Product	Size (LxWxH mm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
48-213/BHC-ZM2P1QY/3C	1.8x1x0.3	Blue	470	22.5	57	2.7	3.2	5
48-213/R6C-AM1N2VY/3C	1.8x1x0.3	Brilliant Red	624	18	45	1.7	2.2	5
48-213/T2D-AQ2R2QY/3C	1.8x1x0.3	Pure White	x=0.274, y=0.226	90	180	2.7	3.2	5
48-213/T3D-AP1Q2TY/3C	1.8x1x0.3	Pure White	x=0.274, y=0.226	45	112	2.6	3	5
48-213/T7D-AQ1R2QY/3C	1.8x1x0.3	Pure White	x=0.274, y=0.226	72	180	2.7	3.2	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Side View Bi-Color



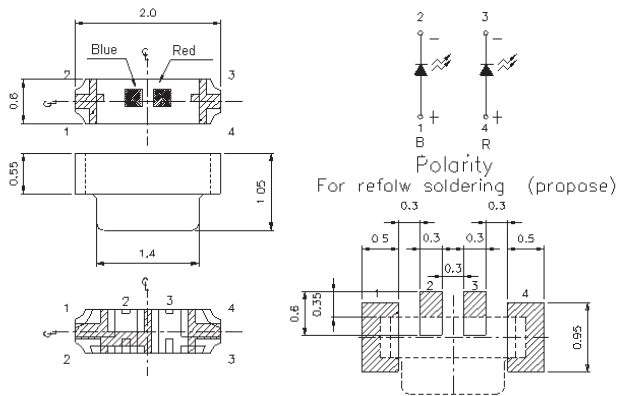
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_f Min./Typ. (V)	V_f Max. (V)	I_f (mA)
12-22/BHR6C-A01/2C	3x2x1	Blue Brilliant Red	BH : 470 R6 : 624	BH : 18 / 28 R6 : 22.5 / 30	—	BH : 2.7 R6 : 1.7	BH : 3.1 R6 : 2.2	5
12-22/G6R8C-A30/2C	3x2x1	Brilliant Yellow Green Deep Red	G6 : 573 R8 : 639	G6 : 28.5 R8 : 28.5	G6 : 72 R8 : 72	G6 : 1.7 / 2 R8 : 1.7 / 2	G6 : 2.4 R8 : 2.4	20
12-22/R6GHC-A30/2C	3x2x1	Brilliant Red Brilliant Green	R6 : 624 GH : 525	R6 : 72 GH : 112	R6 : 180 GH : 285	R6 : 1.7 / 2 GH : 2.7 / 3.3	R6 : 2.4 GH : 3.7	20
12-22/Y2G6C-A30/2C	3x2x1	Brilliant Yellow Brilliant Yellow Green	Y2 : 589 G6 : 573	Y2 : 45 G6 : 28.5	Y2 : 112 G6 : 72	Y2 : 1.7 / 2 G6 : 1.7 / 2	Y2 : 2.4 G6 : 2.4	20

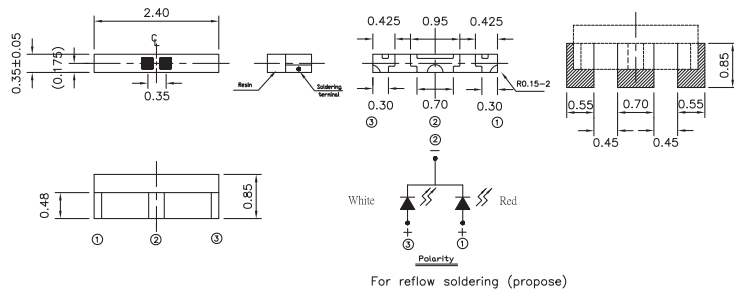


UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_f Min./Typ. (V)	V_f Max. (V)	I_f (mA)
17-223/BHR7C-C30/3C	2x1.05x0.6	● Blue ● Dark Red	BH : 470 R7 : 631	BH : 22.5 R7 : 14.5	BH : 57 R7 : 36	BH : 2.7 R7 : 1.55	BH : 3.2 R7 : 2.15	5

UNIT : mm

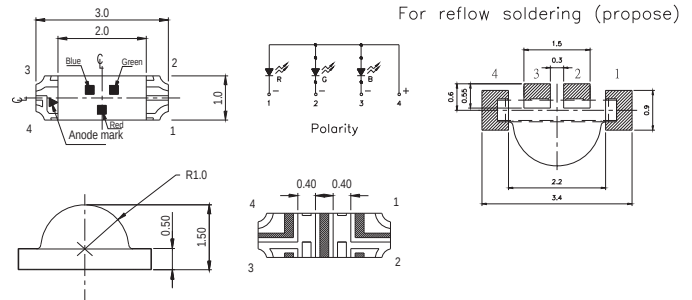


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
48-22/R7T2D-C02/2C	2.4x0.85x0.35	● Dark Red ○ Pure White	R7 : 629	R7 : 36 T2 : 90	R7 : 90 T2 : 225	R7 : 1.7 T2 : 2.7	R7 : 2.2 T2 : 3.2	5

SMD LED | Surface Mount Chip LED (PCB) | Side View Full Color



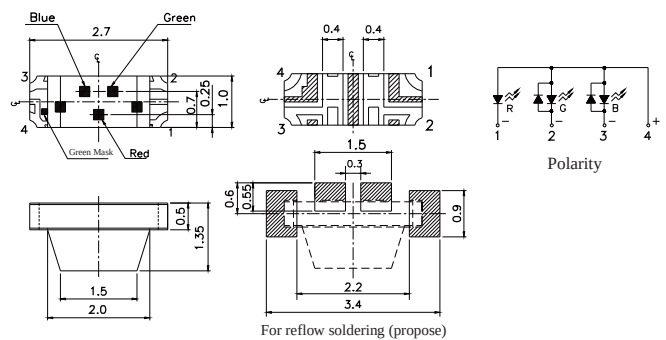
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
12-23C/R6GHBHC-A01/2C	3x1.5x1	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 32 / 50 R6 : 63 / 90 GH : 125 / 180	--	BH : 2.7 / 3.3 R6 : 1.7 / 2 GH : 2.7 / 3.3	BH : 3.7 R6 : 2.4 GH : 3.7	20
12-23C/S2GHBHC-A01/2C	3x1.5x1	- Brilliant Orange - Blue - Brilliant Green	BH : 470 S2 : 605 GH : 525	BH : 36 / 65 S2 : 72 / 140 GH : 140 / 210	--	BH : 3.3 S2 : 2 GH : 3.3	BH : 3.9 S2 : 2.4 GH : 3.9	20



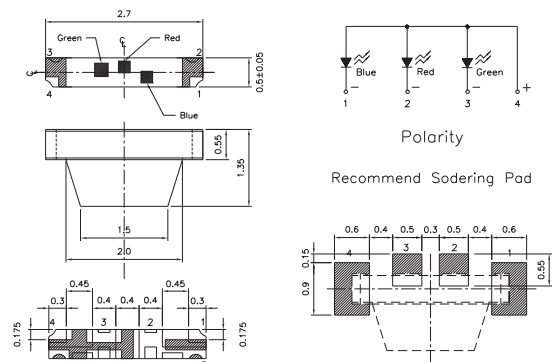
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
22-23/R6GHBHC-A01/2C	2.7x1.35x1	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 28.5 / 45 R6 : 45 / 72 GH : 112 / 180	--	BH : 2.7 / 3.3 R6 : 1.7 / 2 GH : 2.7 / 3.3	BH : 3.7 R6 : 2.4 GH : 3.7	20



UNIT : mm

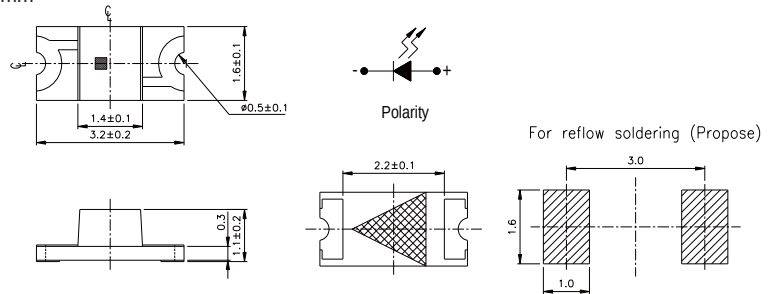


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
22-23C/R6GHBHW-C01/2C	2.7x1.35x0.5	- Blue - Brilliant Red - Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 10 R6 : 14.5 GH : 35	BH : 24.5 R6 : 36 GH : 110	BH : 2.7 / 2.9 R6 : 1.7 / 1.85 GH : 2.7 / 2.9	BH : 3.1 R6 : 2 GH : 3.2	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Reverse Mount



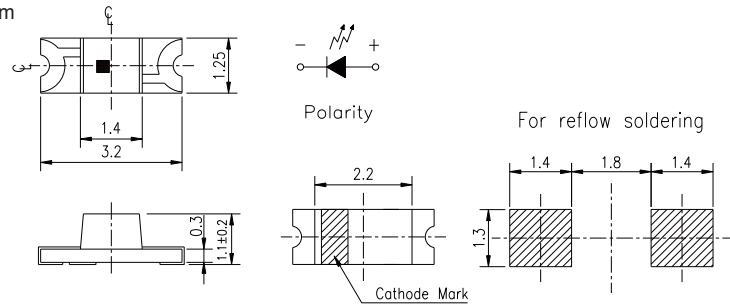
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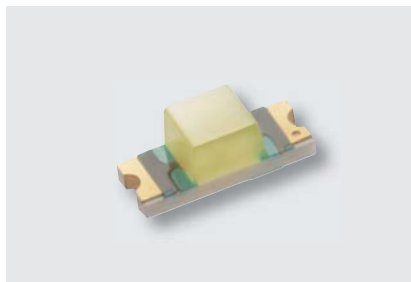
Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-21/G6C-AL2N1/2T	3.2x1.6x1.1	● Brilliant Yellow Green	573	14.5	36	1.7 / 2	2.4	20
23-21/GHC-YR2T1/2A	3.2x1.6x1.1	● Brilliant Green	525	140	360	3.5	3.9	20
23-21/R6C-AM1N2AY/2A	3.2x1.6x1.1	● Brilliant Red	624	18	45	1.55	2.15	5
23-21/R8C-AN2Q1B/2T	3.2x1.6x1.1	● Deep Red	639	36	90	1.75	2.35	20



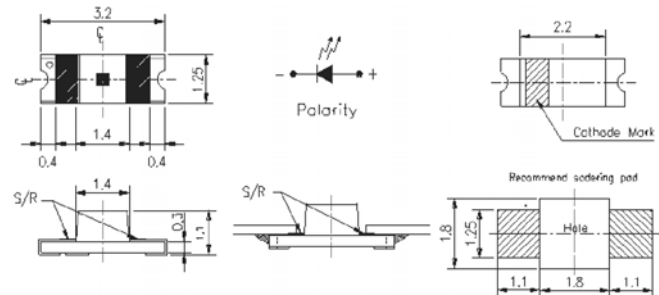
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-21B/BHC-AN1P2/2A	3.2x1.25x1.1	● Blue	470	28.5	72	3.5	4	20
23-21B/BHC-ZL1M1Y/2A	3.2x1.25x1.1	● Blue	470	11.5	22.5	2.7 / 3.3	3.7	5
23-21B/G6C-AM2P1/2A	3.2x1.25x1.1	● Brilliant Yellow Green	573	22.5	57	1.7 / 2	2.4	20
23-21B/S2C-AN1P2/2A	3.2x1.25x1.1	● Brilliant Orange	605	28.5	72	1.7 / 2.0	2.4	20
23-21B/T1D-ANQHY/2A	3.2x1.25x1.1	○ Pure White	x=0.274, y=0.226	28.5	112	2.7	3.15	5
23-21B/T1D-CP2Q2TY/2A	3.2x1.25x1.1	○ Pure White	x=0.274, y=0.226	57	112	2.6	3	5
23-21B/W1D-ANQHY/2A	3.2x1.25x1.1	○ Pure White	x=0.274, y=0.226	28.5	112	2.7	3.15	5

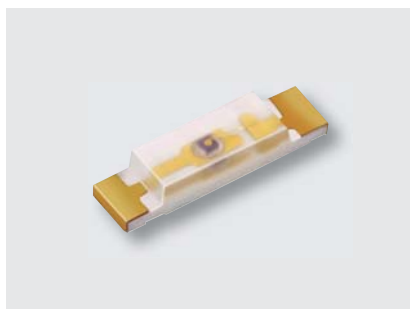


UNIT : mm

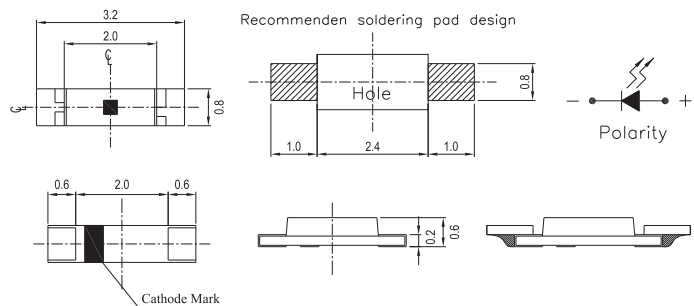


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-21C/T1D-CP2Q2TY/2A	3.2x1.25x1.1	○ White	x=0.274, y=0.226	57	112	Min. 2.6	3	5

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount



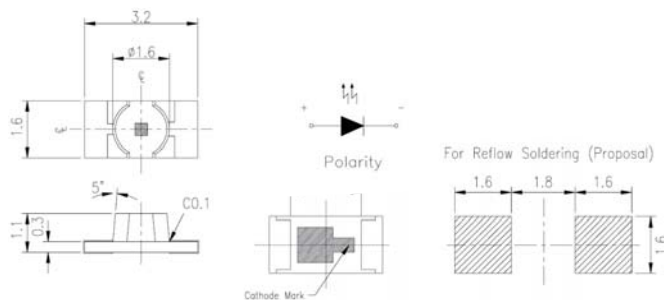
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-215A/BHC-DN2P2E/5A	3.2x0.8x0.6	Blue	470	36	72	2.75	3.65	20



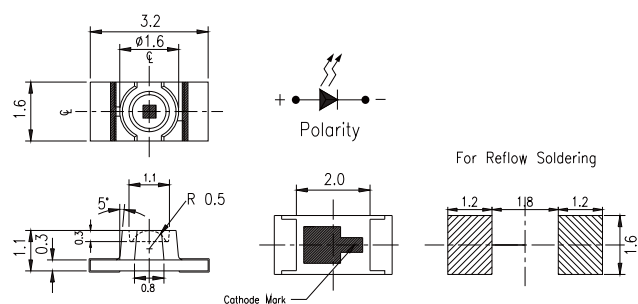
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
24-21/BHC-AN1P2/2A	3.2x1.6x1.1	Blue	470	28.5	72	3.5	4	20
24-21/GHC-YR2T1/2A	3.2x1.6x1.1	Brilliant Green	525	140	360	3.5	4	20



UNIT : mm

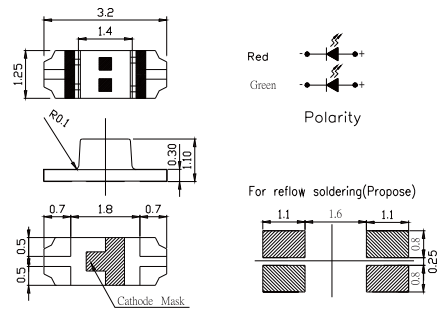


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
25-21/BHC-APR/2T	3.2x1.6x1.1	Blue	470	45	180	2.7 / 3.3	3.7	20
25-21/GHC-YSU/2A	3.2x1.6x1.1	Brilliant Green	525	180	715	3.5	4.3	20
25-21/T1D-ANQHY/2A	3.2x1.6x1.1	Pure White	x=0.274, y=0.226	28.5	112	2.7	3.15	5
25-21/W1D-APQHY/2A	3.2x1.6x1.1	Pure White	x=0.274, y=0.226	45	112	2.7	3.15	5

SMD LED ■ Surface Mount Chip LED (PCB) ■ Reverse Mount Bi-color



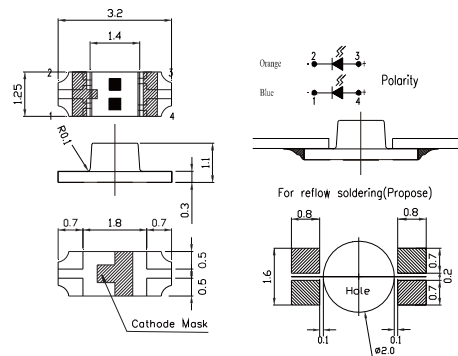
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-22B/R7G6C-A30/2T	3.2x1.25x1.1	- Dark Red - Brilliant Yellow Green	R7 : 631 G6 : 573	R7 : 18 G6 : 14.5	R7 : 72 G6 : 45	R7 : 1.7 / 2 G6 : 1.7 / 2	R7 : 2.4 G6 : 2.4	20
23-22B/S2BHC-C30/2A	3.2x1.25x1.1	- Brilliant Orange - Blue	S2 : 605 BH : 470	S2 : 11.5 BH : 11.5	S2 : 28.5 BH : 28.5	S2 : 1.55 / 1.85 BH : 2.5 / 3.1	S2 : 2.25 BH : 3.5	5

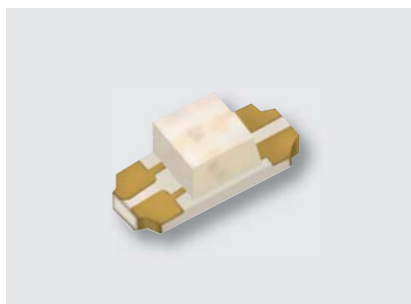


UNIT : mm

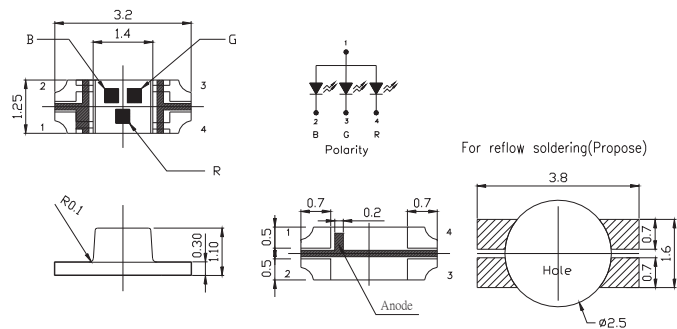


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-22C/S2BHC-B30/2A	3.2x1.25x1.1	- Brilliant Orange - Blue	S2 : 605 BH : 470	S2 : 22.5 BH : 22.5	S2 : 57 BH : 57	S2 : 1.7 / 2 BH : 2.7 / 3.3	S2 : 2.4 BH : 3.7	10

SMD LED ■ Surface Mount Chip LED (PCB) ■ Reverse Mount Full color



UNIT : mm

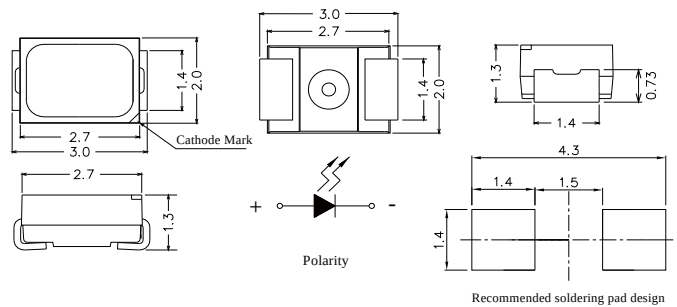


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
23-23B/R6GHBHC-A01/2A	3.2x1.25x1.1	● Blue ● Brilliant Red ● Brilliant Green	BH : 470 R6 : 624 GH : 525	BH : 45 / 65 R6 : 72 / 100 GH : 140 / 200	--	BH : 2.7 / 3.3 R6 : 1.7 / 2 GH : 2.7 / 3.3	BH : 3.7 R6 : 2.4 GH : 3.7	20

SMD LED | Surface Mount PLCC LEDs (Reflector) | Top View LED



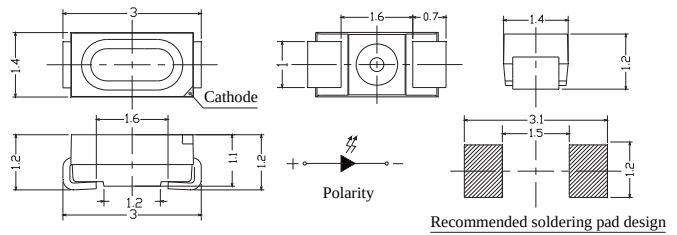
UNIT : mm



Product	Size (LxWxHmm)	Color	I _V (mcd)	CIE	V _F	Viewing Angle (°)
45-21UMC/3235A54/TR8	3x2x1.3	○ White	1700~1900	x=0.2755~0.3110 y=0.2619~0.3150	3.05~3.35	120



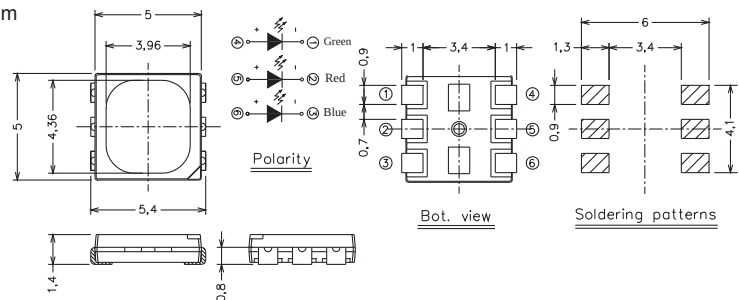
UNIT : mm



Product	Size (LxWxHmm)	Color	I _V (mcd)	CIE	V _F	Viewing Angle (°)
50-215BUMC/3437425/TR8	3x1.4x1.2	○ White	1800~2000	x=0.2818~0.3035 y=0.2619~0.2950	3.05~3.45	120



UNIT : mm

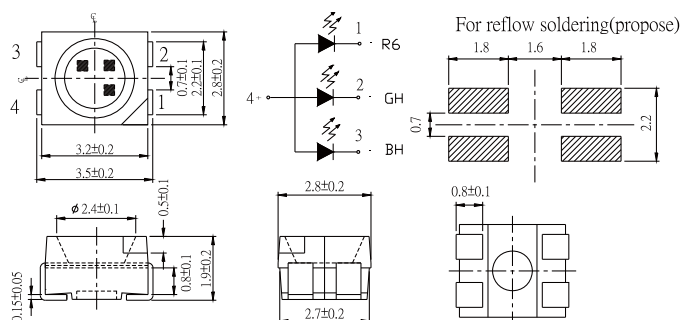


Product	Size (LxWxHmm)	Color	λ _d (nm)/CIE(x,y)	I _V Min./Typ. (mcd)	I _V Max. (mcd)	V _F Min./Typ. (V)	V _F Max. (V)	I _F (mA)
61-238/RSGBB7C-B02/ET	5x5x1.4	RS: ● Brilliant Red GB: ● Brilliant Green B7: ● Blue	RS : Brilliant Red GB : Brilliant Green B7 : Blue	RS : 450 GB : 715 B7 : 225	RS : 900 GB : 1420 B7 : 450	RS : 1.75 GB : 2.75 B7 : 2.75	RS : 2.35 GB : 3.65 B7 : 3.65	20
61-238UMC/S3085/TR8/LT	5x5x1.4	○ White	x=0.290~0.311 y=0.283~0.333	4000	6000	2.7	3.6	20

SMD LED | Surface Mount PLCC LEDs (Reflector) | Top View LED



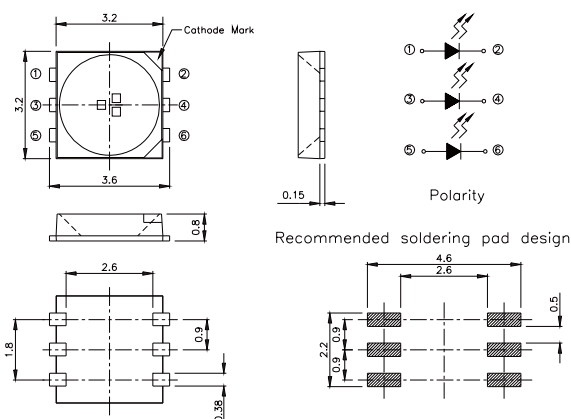
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-23/R6GHBHC-B05/2T	3.5x2.8x1.9	R6: ● Brilliant Red GH: ● Brilliant Green BH: ● Blue	R6 : 621~631 GH : 520~530 BH : 465~475	R6 : 112 GH : 180 BH : 72	R6 : 285 GH : 715 BH : 180	R6 : 2.0 GH : 3.4 BH : 3.4	R6 : 2.4 GH : 3.95 BH : 3.95	20
67-23/T2C-EY2Z0/2T	3.5x2.8x1.9	○ White	x=0.264~0.33 y=0.248~0.36	3600	7200	2.7	3.5	20
67-23SDRSYGUBC/TR8	3.5x2.8x1.8	SDR: ● Deep Red SYG: ● Brilliant Yellow Green UB: ● Blue	SDR : 639 SYG : 573 UB : 470	SDR : 63 / 112 SYG : 13 / 20 UB : 11 / 18	—	SDR : 2.0 SYG : 2.0 UB : 3.5	SDR : 2.4 SYG : 2.4 UB : 4.0	20



UNIT : mm

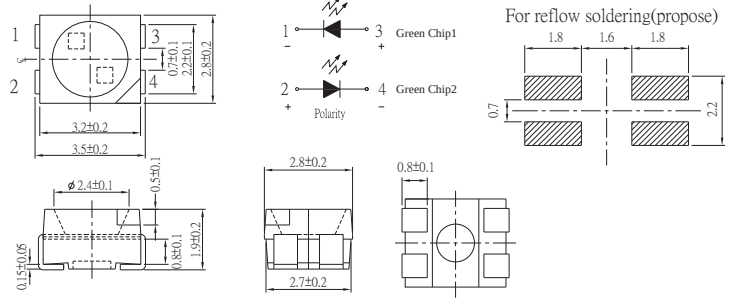


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-235UWC/TR8	3.2x3.2x0.8	○ White	x=0.264~0.361 y=0.248~0.385	2000	2500	3.5	4	20

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View Bi-Color



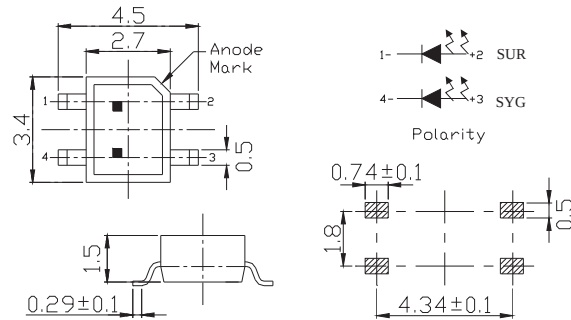
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)
67-22/G3G3C-B45/2T	3.5x2.8x1.9	G3: ○ Pale Green G3: ○ Pale Green	563.5~571.5	4.0 / 10 (10mA)	36 (10mA)	1.7 / 2.0 (10mA)	2.4 (10mA)
67-22/R6BHC-B07/2T	3.5x2.8x1.9	R6: ● Brilliant Red BH: ● Blue	R6 : 621~63 BH : 466.5~471.5	R6 : 90 BH : 90	R6 : 225 BH : 225	R6 : 1.75 BH : 2.9	R6 : 2.35 BH : 3.7
67-22/R6G6C-B09/2T	3.5x2.8x1.9	R6: ● Brilliant Red G6: ● Brilliant Yellow Green	R6 : 621~627 G6 : 570~574	R6 : 57 G6 : 36	R6 : 140 G6 : 90	R6 : 1.75 G6 : 1.75	R6 : 2.35 G6 : 2.35
67-22/R6Y2C-B31/2T	3.5x2.8x1.9	R6: ● Brilliant Red Y2: ● Brilliant Yellow	R6 : 621~631 Y2 : 586~594	72	285	1.75	2.35
67-22SURSYGC/S530-A2/TR8	3.5x2.8x1.9	SUR: ● Deep Red SYG: ● Brilliant Yellow Green	SUR : 624 SYG : 573	SUR : 16 / 24 SYG : 29 / 59	--	SUR : 1.7 / 2.0 SYG : 1.7 / 2.0	SUR : 2.4 SYG : 2.4
67-22UYSYGC/S530-A5/TR8	3.5x2.8x1.9	UY: ● Brilliant Yellow SYG: ● Brilliant Yellow Green	UY : 589 SYG : 573	UY : 80 / 120 SYG : 50 / 80	--	UY : 2.0 SYG : 2.0	UY : 2.4 SYG : 2.4



UNIT : mm

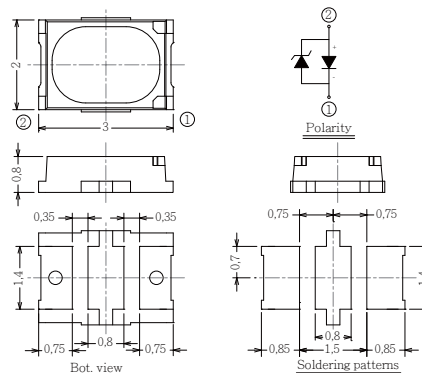


Product	Size (LxWxHmm)	Color	λ_d (nm)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
93-22SURSYGC/S530-A3/TR8	3.4x2.7x1.5	SUR: ● Brilliant Red SYG: ● Brilliant Yellow Green	SUR : 624 SYG : 573	SUR : 17 SYG : 11	SUR : 41 SYG : 17	SUR : 2.0 SYG : 2.0	SUR : 2.4 SYG : 2.4	SUR : 20 SYG : 20

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC2



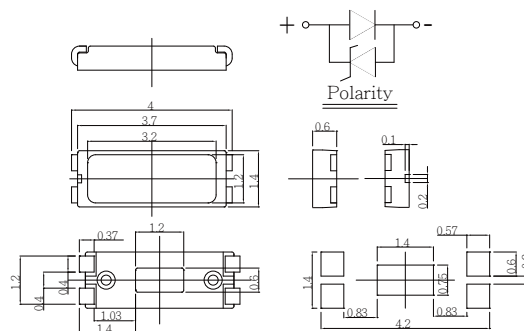
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _v (lm)	CIE	V _F	Viewing Angle (°)
45-21SCUM2C/L1519C7DCAE/TR8-T	3x2x0.8	○White	0.2	15~19	x=0.298, y=0.286	2.9~3.4	120
45-21SCUM2C/L1519C8DDAE/TR8-T	3x2x0.8	○White	0.2	15~19	x=0.302, y=0.294	2.9~3.4	120



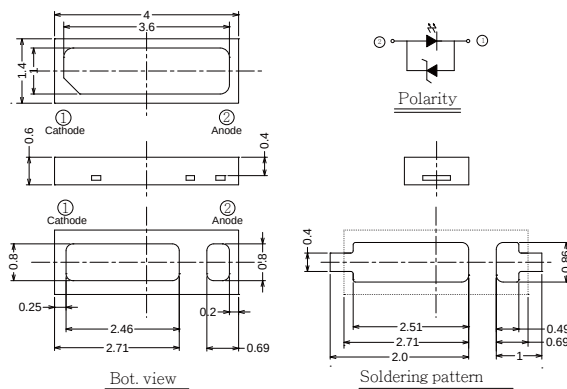
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _v (lm)	CIE	V _F	Viewing Angle (°)
50-315ZUMRAC/S5000-00G/TR8-T	4x1.4x0.6	○White	0.2	16~20	x=0.300, y=0.280	2.9~3.4	120



UNIT : mm

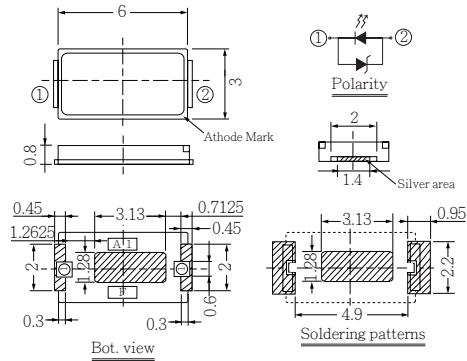


Product	Size (LxWxHmm)	Color	Power (W)	I _v (lm)	CIE	V _F	Viewing Angle (°)
50-615TUMRFC/S4700-1/TR8-T	4x1.4x0.6	○White	0.4	16~22	x=0.280, y=0.259	2.8~3.4	120

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC2



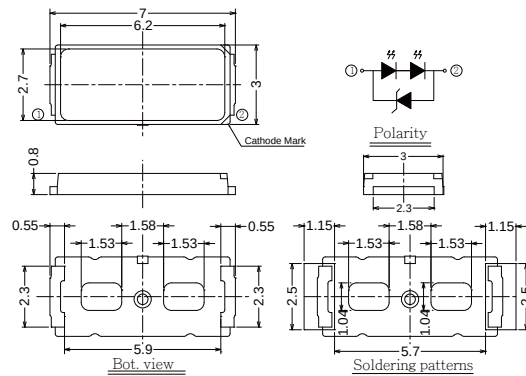
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE (x,y)	V _F (V)	Viewing Angle (°)
62-118AUNC/T3236M3M6BF/TR8-T	6x3x0.8	○ White	0.4	32~38	x=0.259, y=0.222	2.9~3.6	120
62-118AUNC/T3438M4N7BF/TR8-T	6x3x0.8	○ White	0.4	34~40	x=0.2503~0.2799 y=0.2058~0.2492	3.0~3.6	120



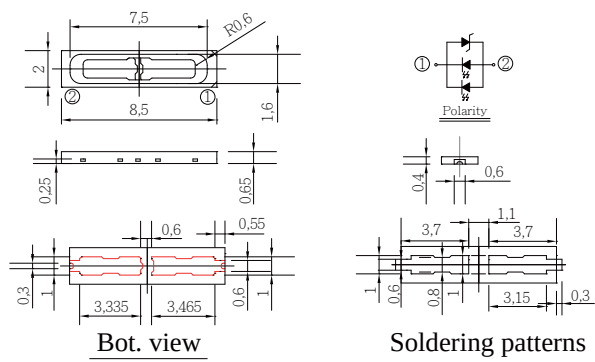
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-121AUNC/T9298M5M8S8C/TR8-T	7x3x0.8	○ White	0.8~1	92~100	x=0.266, y=0.238	5.8~6.8	120
62-121AUNC/T9498M8MBS8C/TR8-T	7x3x0.8	○ White	0.8~1	94~100	x=0.280, y=0.262	5.8~6.8	120



UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-122UNC/XXXXXXPPXX/TR8-T	8.5x2x0.65	○ White	0.4	40~48	x=0.2899, y=0.2632	2.9~3.6	120

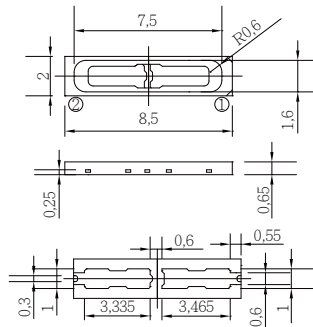
• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

SMD LED | Surface Mount PLCC LEDs (Reflector) | Top View PLCC2

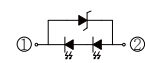
PRELIMINARY



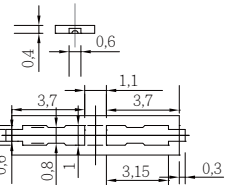
UNIT : mm



Bot. view



Polarity



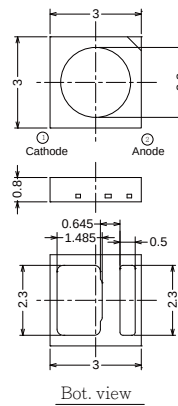
Soldering patterns

Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-122TUNC/XXXXXXS8C/TR8-T	8.5x2x0.65	○White	0.8~1	90~96	x=0.266, y=0.238	5.8~6.8	120

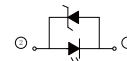
• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.



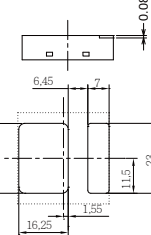
UNIT : mm



Bot. view



Polarity

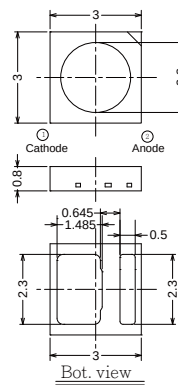


Soldering patterns

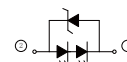
Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-113TUN3C/S5000/TR8-T	3x3x0.8	○White	0.8~1	70~78	x=0.270, y=0.245	2.9~3.6	120



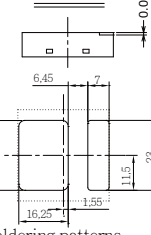
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Bot. view



Polarity



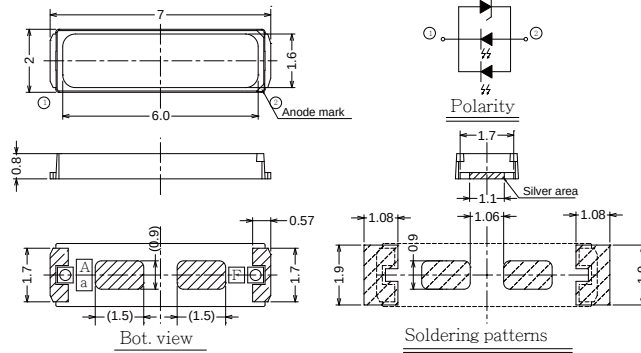
Soldering patterns

Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-123TUNC/S4800/TR8-T	3x3x0.8	○White	0.8~1	70~78	x=0.270, y=0.245	2.9~3.6	120

SMD LED | Surface Mount PLCC LEDs (Reflector) | Top View PLCC2



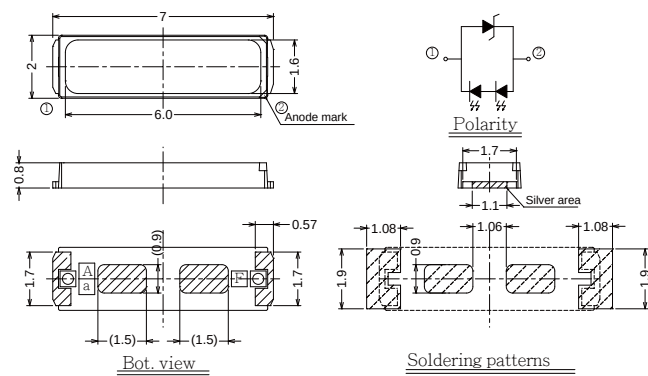
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-129AUGR4C/3034M6M9PAG/TR8-T	7x2x0.8	○White	0.4	30~34	x=0.271, y=0.246	2.9~3.6	120
62-129AUNC/T4048M3M6PBD/TR8-T	7x2x0.8	○White	0.5	40~50	x=0.259, y=0.222	2.9~3.6	120



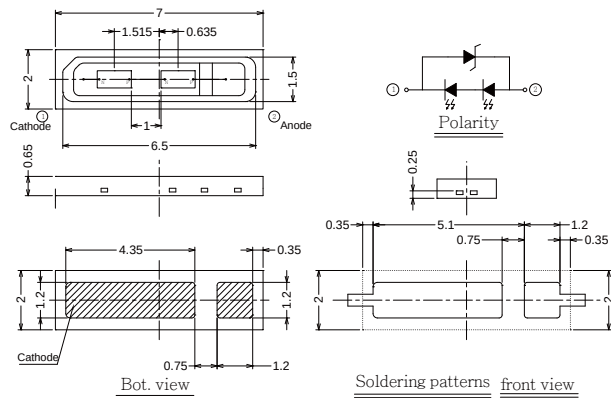
UNIT : mm



Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-129AUNC/T5155M5M8S8C/TR8-T	7.0x2.0x0.8	○White	0.6~0.8	51~57	x=0.266, y=0.238	5.8~6.8	120



UNIT : mm



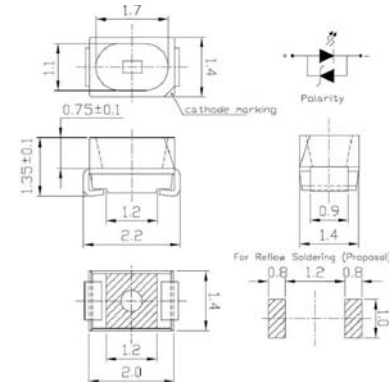
Product	Size (LxWxHmm)	Color	Power (W)	I _V (lm)	CIE	V _F	Viewing Angle (°)
62-129TUNC/XXXXXXXXXX/TR8-T	7x2x0.65	○White	0.8~1	86~90	x=0.266, y=0.238	5.8~6.8	120

• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC2



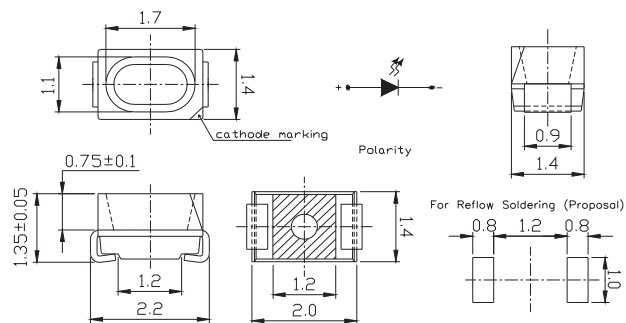
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
65-11/BHC-AR1S2B2/2T	2.2x1.4x1.35	● Blue	464.5~476.5	112	285	2.9	3.6	20
65-11/T2C-FV1W2E/2T	2.2x1.4x1.35	○ Pure White	x=0.2870~0.3110 y=0.2955~0.3390	715	1800	2.75	3.65	20
65-11/UTC/S933/TR8	2.2x1.4x1.35	○ Pure White	x=0.3300~0.3500 y=0.3180~0.3600	1000	1800	2.7	3.5	20



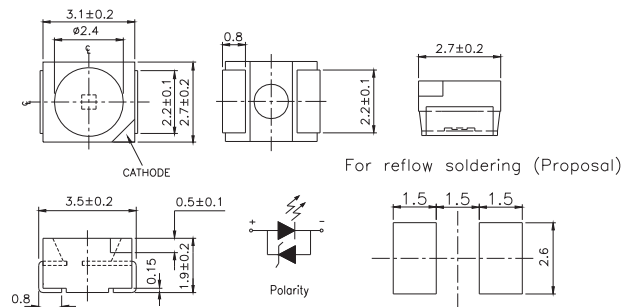
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
65-21/G6C-AN2Q1/3T	2.2x1.4x1.35	● Brilliant Yellow Green	569.5~577.5	36	90	--	2.35	20
65-21/Y2C-CJ2L2X/3T	2.2x1.4x1.35	● Brilliant Yellow	586~592	5.8 (2mA)	18 (2mA)	2	2.4	2
65-21/Y2SC-AR1S2B/2T	2.2x1.4x1.35	● Brilliant Yellow	585.5~594.5	112	285	1.75	2.35	20
65-21/Y2SC-FR2S1B/2T	2.2x1.4x1.35	● Brilliant Yellow	586~594	140	225	1.75	2.35	20



UNIT : mm

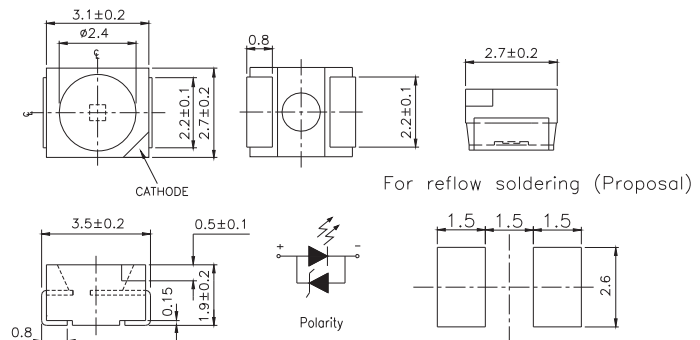


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-11/BHC-FQ2S1F/2T	3.5x2.7x1.9	● Blue	464~472	90	225	2.7	3.5	20
67-11/GHC-AT2V1/2T	3.5x2.7x1.9	● Brilliant Green	520~535	180	450	2.7	3.7	20
67-11/W1C-ES1T2N/2T	3.5x2.7x1.9	● Warm White	x=0.264~0.330 y=0.248~0.360	180	450	2.7	3.7	20
67-11/W1C-FV1W2F/2T	3.5x2.7x1.9	○ White	x=0.283~0.330 y=0.276~0.360	715	1800	2.7	3.5	20

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC2



UNIT : mm

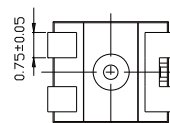
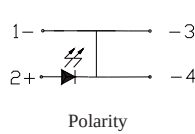
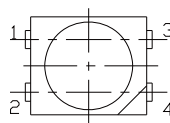


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min./ Typ. (mcd)	I_V Max. (mcd)	V_F Min./ Typ. (V)	V_F Max. (V)	I_F (mA)
67-21/B3C-BN1Q2N/2T	3.5x2.7x1.9	Blue	464.5~473.5	28.5	112	2.7	3.7	20
67-21/B7C-AS2U1N/2T	3.5x2.7x1.9	Blue	464.5~476.5	225	565	2.7	3.7	20
67-21/BHC-FP1Q2F/2T	3.5x2.7x1.9	Blue	464~472	45	112	2.7	3.5	20
67-21/G4C-BQ1T2N/2T	3.5x2.7x1.9	Brilliant Green	523.5~535.5	72	450	2.7	3.7	20
67-21/G6C-FN2P2B/2T	3.5x2.7x1.9	Brilliant Yellow Green	569.5~577.5	45	112	1.75	2.35	20
67-21/GBC-YV2W2N/2T	3.5x2.7x1.9	Brilliant Green	520~535	900	1800	2.7	3.7	20
67-21/GHC-AS2U1B17Z/2T	3.5x2.7x1.9	Brilliant Green	517.5~535.5	225	565	2.5	3.5	10
67-21/GHC-BV1/2T	3.5x2.7x1.9	Brilliant Green	523.5~533.5	715	900	2.7	4.3	20
67-21/R6C-AP2R1B/2T	3.5x2.7x1.9	Brilliant Red	617.5~633.5	57	140	1.75	2.35	20
67-21/R6C-FN2Q1BZ/2T	3.5x2.7x1.9	Brilliant Red	621~631	36	90	1.75	2.35	10
67-21/R6C-FR2T1B/2T	3.5x2.7x1.9	Brilliant Red	621~631	140	360	1.75	2.35	20
67-21/R6C-FS1U1B/2T	3.5x2.7x1.9	Brilliant Red	620.5~631	180	565	1.75 / 2	2.35	20
67-21/RSC-FT2V1B/2T	3.5x2.7x1.9	Brilliant Red	621~631	360	900	1.75	2.35	20
67-21/RSC-T1V1/2T	3.5x2.7x1.9	Brilliant Red	624	285	900	1.7 / 2	2.4	20
67-21/S2C-FQ2R2B/2T	3.5x2.7x1.9	Brilliant Orange	603~609	90	180	1.75 / 2	2.35	20
67-21/S3C-AS1T1/2T	3.5x2.7x1.9	Reddish Orange	605.5~621.5	180	360	2	2.4	20
67-21/T2C-YV2W2B22/2A0	3.5x2.7x1.9	White	x=0.3070~0.3300 y=0.3045~0.3390	900	1800	3	3.6	20
67-21/T2C-ZV1W2E/2T	3.5x2.7x1.9	White	x=0.2569~0.2960 y=0.2283~0.2950	715	1800	2.75	3.65	20
67-21/T3C-EU1V2M/2A0	3.5x2.7x1.9	White	x=0.2640~0.3300 y=0.2480~0.3600	450	1120	2.75	3.95	20
67-21/Y2C-AP1Q1B/2T	3.5x2.7x1.9	Brilliant Yellow	585.5~594.5	45	90	1.75	2.35	20
67-21/Y2C-AS1T1/2T	3.5x2.7x1.9	Brilliant Yellow	585.5~594.5	180	360	2	2.4	20
67-21/Y2C-BR2T1B/2T	3.5x2.7x1.9	Brilliant Yellow	588.5~594.5	140	360	1.75	2.35	20
67-21/YSC-FU1U2B/2T	3.5x2.7x1.9	Brilliant Yellow	586~594	495	715	1.75	2.35	20
67-21/YSC-FU1V2B/2T	3.5x2.7x1.9	Brilliant Yellow	586~594	450	1120	1.75	2.35	20
67-21SUBC/S400-X9/TR8	3.5x2.7x1.9	Blue	470	32	135	3.5	4.3	20
67-21SURC/S530-A7/TR8	3.5x2.7x1.9	Hyper Red	624	23	251	2	2.4	20
67-21UBC/C430/TR8	3.5x2.7x1.9	Blue	466	35 / 55	NA	3.8	4.5	20
67-21UYC/S530-A6/TR8	3.5x2.7x1.9	Brilliant Yellow	589	40	154	1.7 / 2	2.4	20

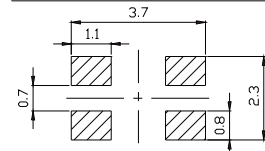
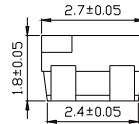
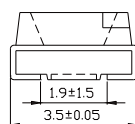
SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC3



UNIT : mm



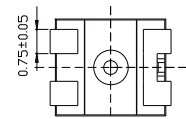
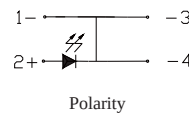
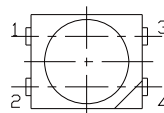
Recommended soldering pad design



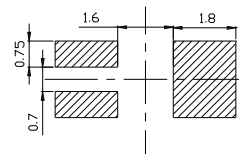
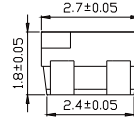
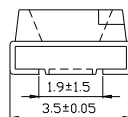
Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_V Min./ Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-31A/B7C-AT1U2MZ3/2T	3.5x2.7x1.8	Blue	464.5~476.5	285	715	2.75	3.95	30
67-31A/GHC-YV1W2EZ3/2T	3.5x2.7x1.8	Green	520~535	715	1800	2.75	3.65	30
67-31A/SAC-AW1X2B9Z5/2T	3.5x2.7x1.8	Reddish Orange	605.5~625.5	1120	2850	2.15	2.75	50



UNIT : mm



Recommended soldering pad design

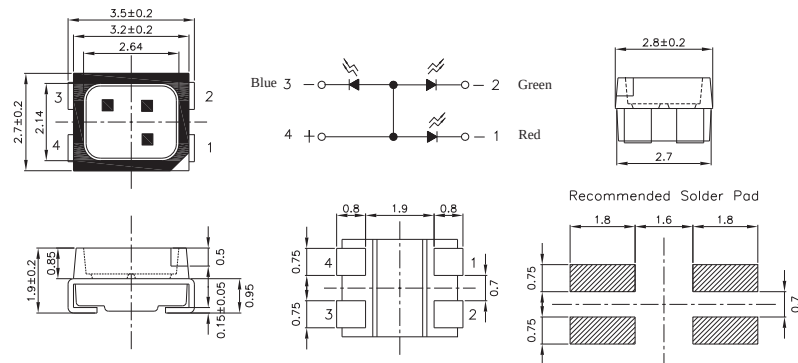


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_V Min./ Typ. (mcd)	I_V Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-31E/RSC-AV1W2B9Z5/2T	3.5x2.7x1.8	Brilliant Red	617.5~633.5	715	1800	2.15	2.75	50

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Top View PLCC4



UNIT : mm

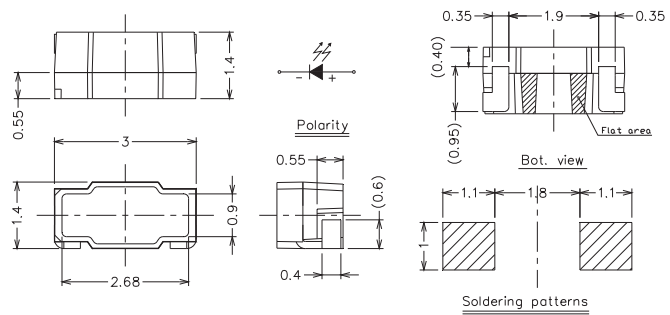


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
67-03/BHGHR6W-B11/2T	3.5x2.7x1.9	RS: ● Brilliant Red GH: ● Brilliant Green BH: ● Blue	R6 : 632 GH : 518 BH : 468	R6 : 210 GH : 575 BH : 210	R6 : 300 GH : 825 BH : 300	R6 : 1.75 GH : 2.9 BH : 2.9	R6 : 2.35 GH : 3.5 BH : 3.5	20
67-03/RSGHBHC-B06/1T	3.5x2.7x1.9	RS: ● Brilliant Red GH: ● Brilliant Green BH: ● Blue	RS : 50 GH : 30 BH : 30	RS : 450 GH : 900 BH : 226	RS : 715 GH : 1420 BH : 450	RS : 2.0 GH : 3.5 BH : 3.5	RS : 2.4 GH : 4.0 BH : 4.0	20

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Side View LED



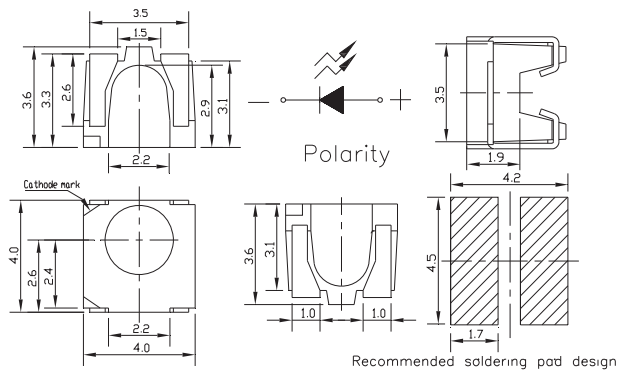
UNIT : mm



Product	Size (LxWxHmm)	Color	I _v (mcd)	Wavelength (nm)	V _F (V)	Viewing Angle (°)
50-215UMC/3437555/TR8	3x1.4x1.4	○ White	1800~2000	x=0.2970~0.3205 y=0.2850~0.3270	3.05~3.45	120



UNIT : mm

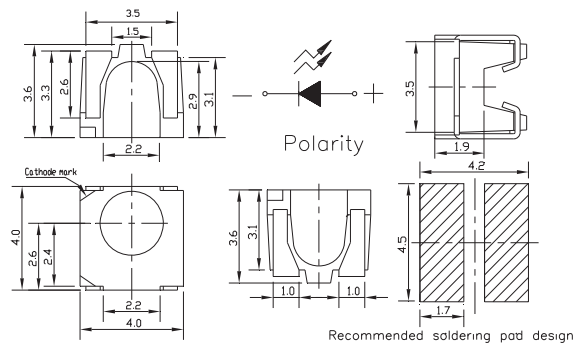


Product	Size (LxWxHmm)	Color	λ _d (nm)/CIE(x,y)	I _v Min./Typ. (mcd)	I _v Max. (mcd)	V _F Min./Typ. (V)	V _F Max. (V)
57-11UTC/S827-1/TR8	4x4x3.6	○ White	x=0.3130~0.3450 y=0.2840~0.3520	900	1800	2.75	3.95

SMD LED ■ Surface Mount PLCC LEDs (Reflector) ■ Side View LED



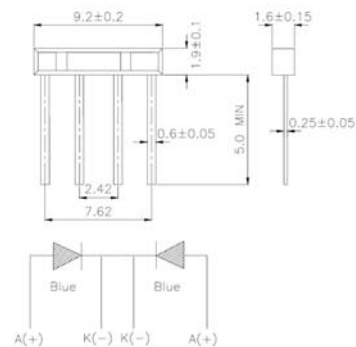
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
57-21/R6C-AP1Q2B/BF	4x4x3.6	● Brilliant Red	617.5~633.5	45	112	1.75	2.35	20
57-21SYGC/S530-E3/TR8	4x4x3.6	● Brilliant Yellow Green	573	32	--	1.7 / 2.0	2.4	20



UNIT : mm

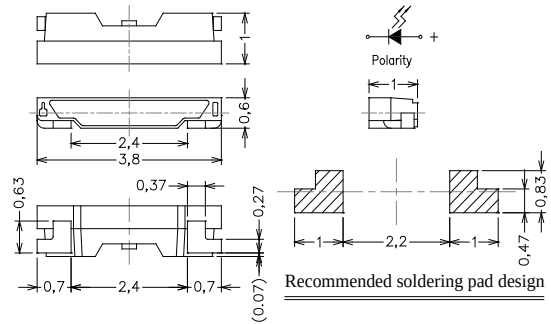


Product	Size (LxWxHmm)	Color	λ_d (nm)	I_v Min./Typ. (mcd)	I_v Max. (mcd)	V_F Min./Typ. (V)	V_F Max. (V)	I_F (mA)
94-22SUBC/S400-A4/S2	9.2x1.6x1.9	● Blue	470	50	70	3.5	4.3	20

SMD LED | Surface Mount PLCC LEDs (Reflector) | Side View LED



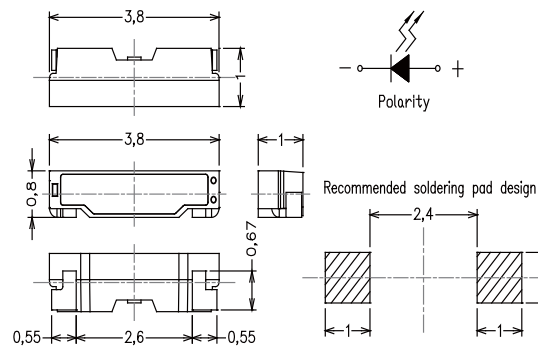
UNIT : mm



Product	Size (LxWxHmm)	Color	I _v (lm)	CIE	V _F (V)	Viewing Angle (°)
99-616	3.8x1x0.6	○White	7.5~8.25	x=0.282~0.304 y=0.262~0.301	2.95~3.45	120



UNIT : mm

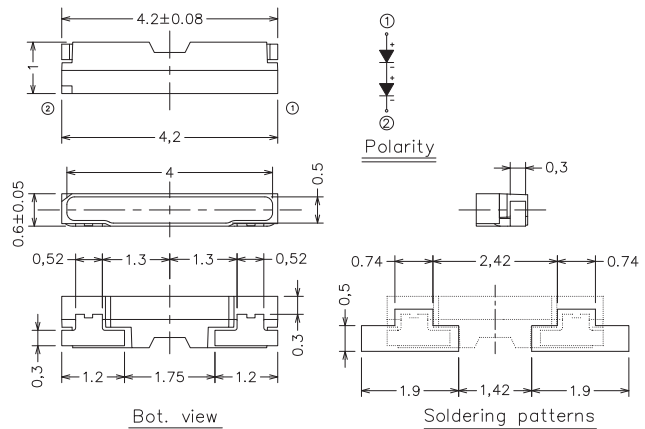


Product	Size (LxWxHmm)	Color	I _v (lm)	CIE	V _F (V)	Viewing Angle (°)
99-713	3.8x1x0.8	○White	7.75~8.5	x=0.274~0.296 y=0.254~0.293	2.95~3.45	120



PRELIMINARY

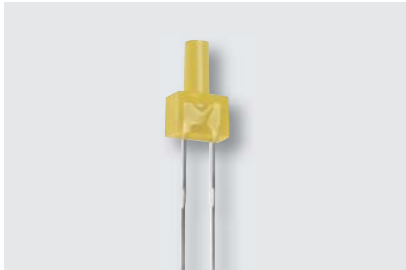
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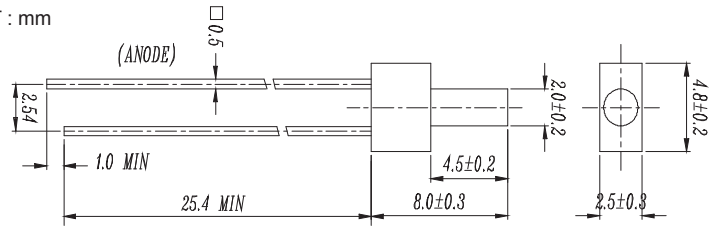
Product	Size (LxWxHmm)	Color	I _v (lm)	CIE	V _F (V)	Viewing Angle (°)
99-826	4.2x1x0.6	○White	13~16	X=0.282~0.304 Y=0.262~0.301	5.4~6.2	120

• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

LED Lamps | 2mm Tower Type



UNIT : mm

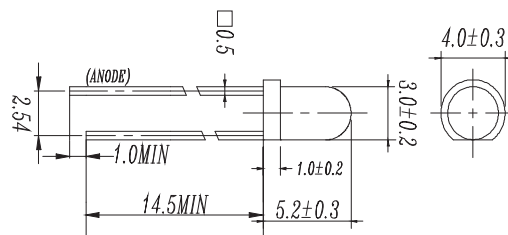


Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
103SUBD/S400-A4	2	Blue	Tower	470	Color Diffused	40 / 80	3.4 / 4.0	100
103SURD/S530-A3	2	Brilliant Red	Tower	624	Color Diffused	25 / 40	2.0 / 2.4	130
103SYGD/S530-E2	2	Brilliant Yellow Green	Tower	573	Color Diffused	6.3 / 12.5	2.0 / 2.4	130

LED Lamps | 3mm Round Type



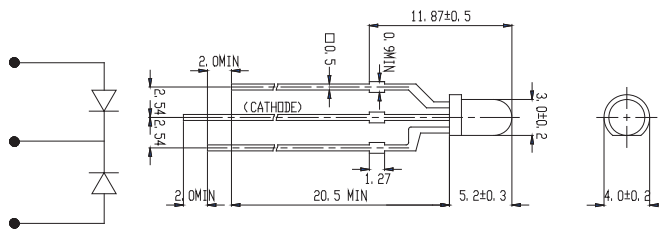
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
204-10SDRD/S530-A3	3	Deep Red	Round	639	Color Diffused	40 / 80	2.0 / 2.4	50
204-10SUBC/S400-A4	3	Blue	Round	470	Water Clear	400 / 800	3.4 / 4.0	20
204-10SUGC/S400-A5	3	Brilliant Green	Round	525	Water Clear	1600 / 3200	3.4 / 4.0	30
204-10SURC/S400-A8	3	Brilliant Red	Round	624	Water Clear	1000 / 2000	2.0 / 2.4	20
204-10SURC/S530-A3	3	Brilliant Red	Round	624	Water Clear	250 / 500	2.0 / 2.4	25
204-10SURC/S530-A3-L	3	Brilliant Red	Round	624	Water Clear	250 / 400	2.0 / 2.4	30
204-10SURD/S530-A3	3	Brilliant Red	Round	624	Color Diffused	40 / 80	2.0 / 2.4	45
204-10SURD/S530-A3-L	3	Brilliant Red	Round	624	Color Diffused	40 / 80	2.0 / 2.4	45
204-10SURT/S530-A3	3	Brilliant Red	Round	624	Trans	250 / 500	2.0 / 2.4	20
204-10SYGC/S530-E2	3	Brilliant Yellow Green	Round	573	Water Clear	125 / 250	2.0 / 2.4	20
204-10SYGD/S530-E3	3	Brilliant Yellow Green	Round	573	Color Diffused	63 / 100	2.0 / 2.4	45
204-10SYGT/S530-E2	3	Brilliant Yellow Green	Round	573	Trans	100 / 200	2.0 / 2.4	20
204-10USOC/S400-A9	3	Reddish Orange	Round	615	Water Clear	1600 / 3200	2.0 / 2.4	20
204-10UYC/S400-A9	3	Brilliant Yellow	Round	589	Water Clear	1000 / 3200	2.0 / 2.4	20
204-10UYC/S530-A3	3	Brilliant Yellow	Round	589	Water Clear	310 / 540	2.0 / 2.4	20
204-10UYC/S530-A3-L	3	Brilliant Yellow	Round	589	Water Clear	320 / 400	2.0 / 2.4	20
204-10UYD/S530-A3	3	Brilliant Yellow	Round	589	Color Diffused	100 / 200	2.0 / 2.4	40
204-10UYD/S530-A3-L	3	Brilliant Yellow	Round	589	Color Diffused	100 / 200	2.0 / 2.4	60
204-10UYOC/S530-A3	3	Brilliant Orange	Round	605	Water Clear	320 / 500	2.0 / 2.4	30
204-10UYT/S530-A3	3	Brilliant Yellow	Round	589	Trans	250 / 500	2.0 / 2.4	20

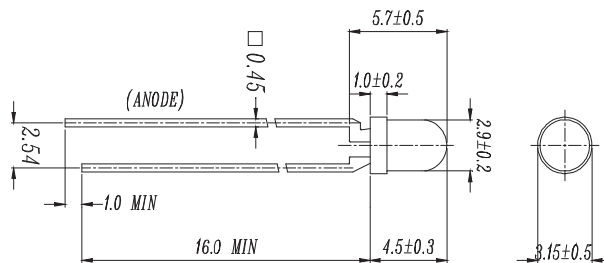
LED Lamps ■ 3mm Round Type

UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
209SURSYGW/S530-A3	3	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	White Diffused	40 / 80 20 / 40	2.0 / 2.4 2.0 / 2.4	80
209SDRSYGW/S530-A3	3	● Deep Red ● Brilliant Yellow Green	Round	639 / 573	White Diffused	25 / 50 16 / 32	2.0 / 2.4 2.0 / 2.4	80
209SURSYGC/S530-A3	3	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	Water Clear	63 / 125 40 / 80	2.0 / 2.4 2.0 / 2.4	60
209SURSYGW/S530-A3	3	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	White Diffused	40 / 80 20 / 40	2.0 / 2.4 2.0 / 2.4	80
209UYOSUGC/S530-A3	3	● Brilliant Orange ● Brilliant Green	Round	605 / 525	Water Clear	100 / 200 160 / 320	2.0 / 2.4 3.5 / 4.3	50

UNIT : mm

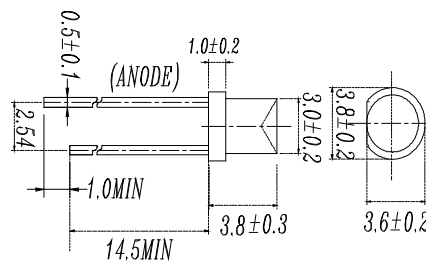


Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
264-7SDRC/S530-A3	2.9	● Deep Red	Round	639	Water Clear	40 / 100	2.0 / 2.4	40
264-7SDRD/S530-A3	2.9	● Deep Red	Round	639	Color Diffused	50 / 100	2.0 / 2.4	60
264-7SUGC/C525	2.9	● Brilliant Green	Round	525	Water Clear	400 / 800	3.5 / 4.3	30
264-7SURC/S400-A8	2.9	● Brilliant Red	Round	624	Water Clear	400 / 800	2.0 / 2.4	40
264-7SURD/S530-A3	2.9	● Brilliant Red	Round	624	Color Diffused	63 / 125	2.0 / 2.4	60
264-7SURT/S530-A3	2.9	● Brilliant Red	Round	624	Trans	160 / 320	2.0 / 2.4	40
264-7SYGC/S530-E3	2.9	● Brilliant Yellow Green	Round	573	Water Clear	100 / 320	2.0 / 2.4	35
264-7SYGD/S530-E2	2.9	● Brilliant Yellow Green	Round	573	Color Diffused	20 / 32	2.0 / 2.4	60
264-7SYGT/S530-E2	2.9	● Brilliant Yellow Green	Round	573	Trans	63 / 125	2.0 / 2.4	40
264-7UYC/S400-A9	2.9	● Brilliant Yellow	Round	589	Water Clear	400 / 800	2.0 / 2.4	40

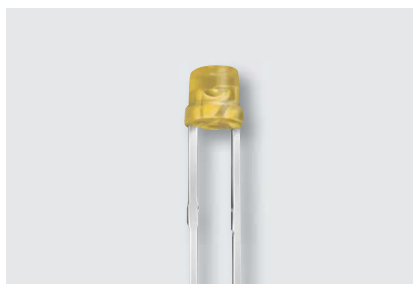
LED Lamps ■ 3mm Round Type



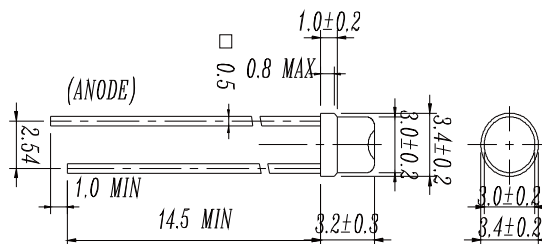
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
484-10SURT/S530-A3	3	● Brilliant Red	Round	624	Trans	10 / 20	2.0 / 2.4	130
484-10UYT/S530-A3	3	● Brilliant Yellow	Round	589	Trans	16 / 32	2.0 / 2.4	110



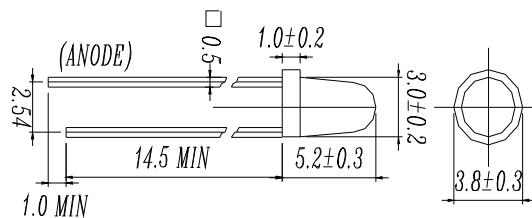
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
494-10SURT/S530-A3	3	● Brilliant Red	Round	624	Trans	16 / 32	2.0 / 2.4	100
494-10SYGT/S530-E2	3	● Brilliant Yellow Green	Round	573	Trans	10 / 20	2.0 / 2.4	100



UNIT : mm

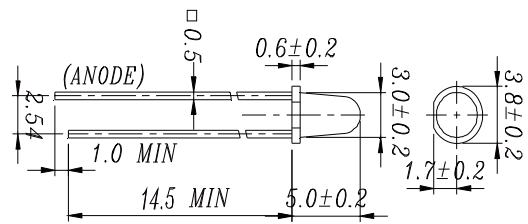


Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1224SYGC/S530-E2	3	● Brilliant Yellow Green	Round	573	Water Clear	63 / 100	2.0 / 2.4	25
1224USOC/S530-A3	3	● Reddish Orange	Round	615	Water Clear	188 / 295	2.0 / 2.4	25
1224UTC/S400-A6	3	○ White	Round	x=0.29, y=0.28	Water Clear	715 / 1800	3.0 / 4.0	25

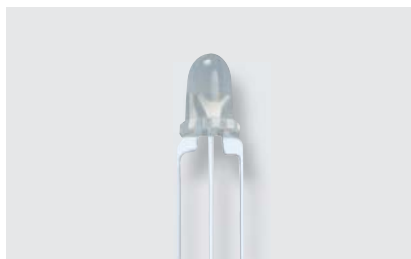
LED Lamps | 3mm Round Type



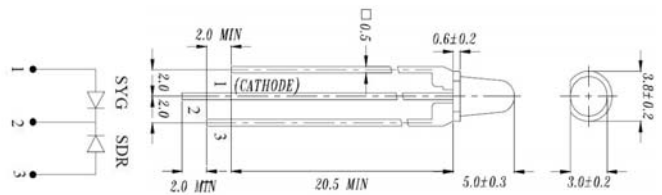
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm) / CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1254-10SDRD/S530-A3	3	Deep Red	Round	639	Color Diffused	100 / 160	2.0 / 2.4	30
1254-10SURD/S530-A3	3	Brilliant Red	Round	624	Color Diffused	250 / 400	2.0 / 2.4	30
1254-10SURT/S530-A3	3	Brilliant Red	Round	624	Trans	160 / 320	2.0 / 2.4	30
1254-10SYGD/S530-E2	3	Brilliant Yellow Green	Round	573	Color Diffused	40 / 63	2.0 / 2.4	40
1254-10SYGT/S530-E2	3	Brilliant Yellow Green	Round	573	Trans	160 / 320	2.0 / 2.4	30
1254-10UYD/S530-A3	3	Brilliant Yellow	Round	589	Color Diffused	100 / 200	2.0 / 2.4	30



UNIT : mm

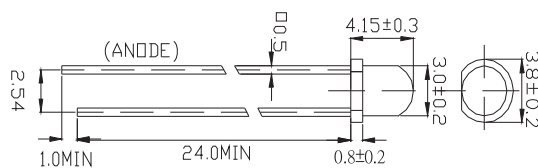


Product	Size (mm)	Color	Lens Type	λ_d (nm)/CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1259-7SDRSYGW/S530-A3	3	Deep Red Brilliant Yellow Green	Round	639 / 573	White Diffused	16 / 32 25 / 50	2.0 / 2.4 2.0 / 2.4	50
1259-7SURLSYGW/S530-A3	3	Brilliant Red Brilliant Yellow Green	Round	624 / 573	White Diffused	40 / 80 16 / 32	2.0 / 2.4 2.0 / 2.4	60
1259-7UYSYGW/S530-A3	3	Brilliant Yellow Brilliant Yellow Green	Round	589 / 573	White Diffused	63 / 125 40 / 80	2.0 / 2.4 2.0 / 2.4	40

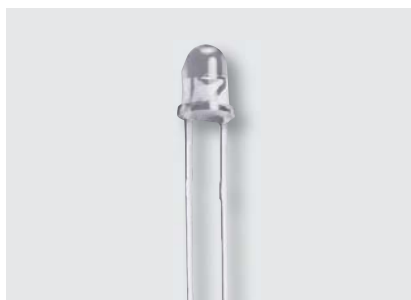
LED Lamps | 3mm Round Type



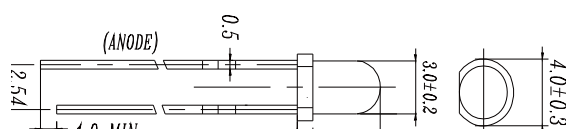
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
3294-15SUBC/S400-A6	3	Blue	Round	470	Water Clear	160 / 320	3.4 / 4.0	90
3294-15SUGC/S400-A6	3	Brilliant Green	Round	525	Water Clear	500 / 1250	3.4 / 4.0	45
3294-15SURC/S400-A7	3	Brilliant Red	Round	624	Water Clear	100 / 200	2.0 / 2.4	90
3294-15UBGC/S400-A6	3	Bluish Green	Round	505	Water Clear	400 / 800	3.5 / 4.3	90



UNIT : mm

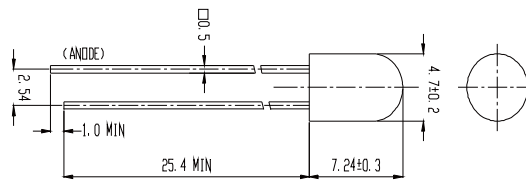


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
4204-10SYGC/S530-E4	3	Brilliant Yellow Green	Round	573	Water Clear	250 / 500	2.0 / 2.4	20

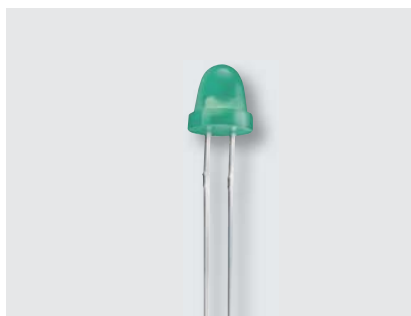
LED Lamps | 5mm Round Type



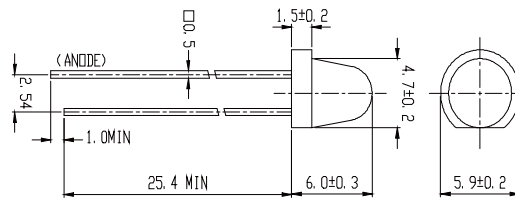
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
313-2SYGC/S530-E2	4.7	Brilliant Yellow Green	Round	573	Water Clear	250 / 500	2.0 / 2.4	20
313-2SYGD/S530-E2	4.7	Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	45
313-2UYD/S530-A3	4.7	Brilliant Yellow	Round	589	Color Diffused	100 / 200	2.0 / 2.4	50



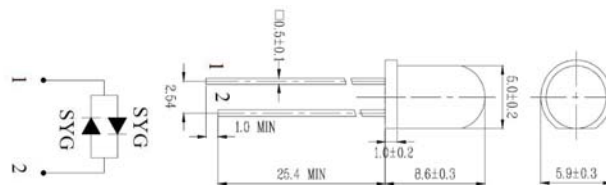
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
323-2SURD/S530-A3	4.7	Brilliant Red	Round	624	Color Diffused	63 / 100	2.0 / 2.4	40
323-2SYGD/S530-E2	4.7	Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	60



UNIT : mm

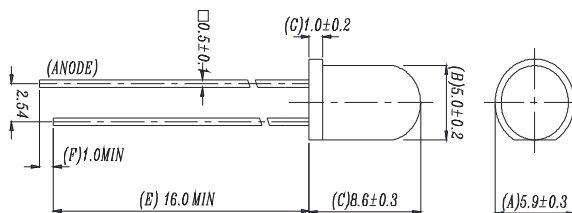


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
336SURSYGW/S530-A3	5	Brilliant Red Brilliant Yellow Green	Round	624 / 573	White Diffused	16 / 32 16 / 32	2.0 / 2.4 2.0 / 2.4	90
336SYGSYGD/S530-E2	5	Brilliant Yellow Green Brilliant Yellow Green	Round	573 / 573	Color Diffused	8 / 16 8 / 16	2.0 / 2.4 2.0 / 2.4	90

LED Lamps | 5mm Round Type



UNIT : mm

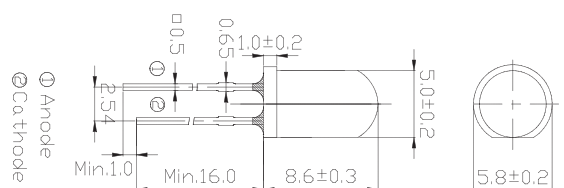


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
333-2SDRC/S530-A4	5	● Deep Red	Round	639	Water Clear	400 / 1000	2.0 / 2.4	10
333-2SDRD/S530-A3	5	● Deep Red	Round	639	Color Diffused	100 / 160	2.0 / 2.4	30
333-2SDRT/S530-A3	5	● Deep Red	Round	639	Trans	500 / 1250	2.0 / 2.4	10
333-2SUBC/S400-A6	5	● Blue	Round	470	Water Clear	1000 / 2000	3.4 / 4.0	10
333-2SUBD/S400-A4	5	● Blue	Round	470	Color Diffused	400 / 800	3.4 / 4.0	20
333-2SUBW/S400-A4	5	● Blue	Round	470	White Diffused	100 / 200	3.4 / 4.0	40
333-2SUGC/S525	5	● Brilliant Green	Round	525	Water Clear	1600 / 3200	3.5 / 4.3	10
333-2SUGC/S400-A5	5	● Brilliant Green	Round	525	Water Clear	4000 / 8000	3.4 / 4.0	15
333-2SURC/S400-A8	5	● Brilliant Red	Round	624	Water Clear	3200 / 5000	2.0 / 2.4	10
333-2SURD/S530-A3	5	● Brilliant Red	Round	624	Color Diffused	100 / 200	2.0 / 2.4	30
333-2SURT/S530-A3	5	● Brilliant Red	Round	624	Trans	400 / 800	2.0 / 2.4	10
333-2SYGC/S530-E2	5	● Brilliant Yellow Green	Round	573	Water Clear	400 / 800	2.0 / 2.4	10
333-2SYGD/S530-E2	5	● Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	30
333-2SYGT/S530-E2	5	● Brilliant Yellow Green	Round	573	Trans	250 / 400	2.0 / 2.4	10
333-2SYGW/S530-E2	5	● Brilliant Yellow Green	Round	573	White Diffused	63 / 125	2.0 / 2.4	35
333-2UTC/S400-A6	5	○ White	Round	x=0.29, y=0.30	Water Clear	3600 / 9000	2.8 / 3.6	15
333-2UYC/S400-A4	5	● Brilliant Yellow	Round	589	Water Clear	1432 / 2148	2.0 / 2.4	10
333-2UYC/S400-A7	5	● Brilliant Yellow	Round	589	Water Clear	2500 / 4000	2.0 / 2.4	10
333-2UYC/S530-A3	5	● Brilliant Yellow	Round	589	Water Clear	630 / 1600	2.0 / 2.4	10
333-2UYC/S530-A6	5	● Brilliant Yellow	Round	589	Water Clear	2000 / 3200	2.0 / 2.4	10
333-2UYD/S530-A3	5	● Brilliant Yellow	Round	589	Color Diffused	160 / 320	2.0 / 2.4	35

LED Lamps | 5mm Round Type

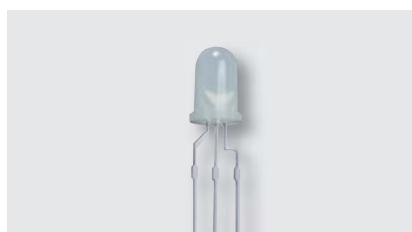


UNIT : mm

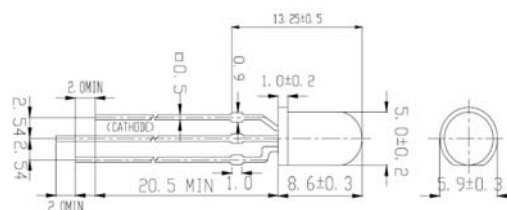


Product	Size (mm)	Color	Lens Type	λ_d (nm)/CIE(x,y)	Resin Color	I_v (Min/Max)	V_F (Min/Max)	Viewing Angle (°)
334-15/T1C1-1VXA	5	○ White	Round	x=0.29, y=0.28	Water Clear	11250 / 22500	2.8 / 3.6	15
334-15/T1C1-4VXC	5	○ White	Round	x=0.30, y=0.29	Water Clear	11250 / 22500	2.8 / 3.6	15
334-15/T1C1-7VXC	5	○ White	Round	x=0.30, y=0.29	Water Clear	11250 / 22500	2.8 / 3.6	15
334-15/T1C3-7TVA	5	○ White	Round	x=0.30, y=0.29	Water Clear	7150 / 14250	2.8 / 3.6	30
334-15/T1C5-4PRA	5	○ White	Round	x=0.30, y=0.29	Water Clear	2850 / 5650	2.8 / 3.6	50
334-15/T2C1-1SUB	5	○ White	Round	x=0.29, y=0.28	Water Clear	5650 / 11250	2.8 / 3.6	15
334-15/T2C1-1UWA	5	○ White	Round	x=0.29, y=0.28	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/T2C1-1UWB	5	○ White	Round	x=0.29, y=0.28	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/T2C1-2UWC	5	○ White	Round	x=0.26, y=0.27	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/T2C1-4UWC	5	○ White	Round	x=0.30, y=0.29	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/T2C1-7UWC	5	○ White	Round	x=0.30, y=0.29	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/T2C2-1TVB	5	○ White	Round	x=0.29, y=0.28	Water Clear	7150 / 14250	2.8 / 3.6	20
334-15/T2C2-6TVB	5	○ White	Round	x=0.29, y=0.28	Water Clear	7150 / 14250	2.8 / 3.6	20
334-15/T2C2-6TWB	5	○ White	Round	x=0.33, y=0.34	Water Clear	7150 / 18000	2.8 / 3.6	20
334-15/T2C2-7TVA	5	○ White	Round	x=0.29, y=0.28	Water Clear	7150 / 14250	2.8 / 3.6	20
334-15/T2C3-1RTB	5	○ White	Round	x=0.29, y=0.28	Water Clear	4500 / 9000	2.8 / 3.6	30
334-15/T2C3-2RTC	5	○ White	Round	x=0.26, y=0.27	Water Clear	4500 / 9000	3.0 / 3.6	30
334-15/T2C3-4RTB	5	○ White	Round	x=0.30, y=0.29	Water Clear	4500 / 9000	2.8 / 3.6	30
334-15/T2C5-1MQB	5	○ White	Round	x=0.29, y=0.28	Water Clear	1800 / 4500	2.8 / 3.6	50
334-15/X1C2-1UWA	5	○ Warm White	Round	x=0.40, y=0.39	Water Clear	9000 / 18000	2.8 / 3.6	20
334-15/X2C1-1UWB	5	○ Warm White	Round	x=0.40, y=0.39	Water Clear	9000 / 18000	2.8 / 3.6	15
334-15/X2C1-4UWA	5	○ Warm White	Round	x=0.42, y=0.39	Water Clear	9000 / 18000	2.8 / 3.6	15

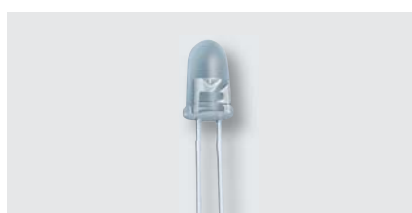
LED Lamps | 5mm Round Type



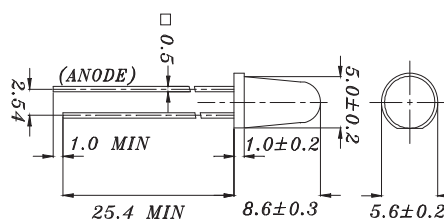
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
339-1SURSYGC/S530-A3	5	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	Water Clear	160 / 250 40 / 63	2.0 / 2.4 2.0 / 2.4	25
339-1SURSYGW/S530-A3	5	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	White Diffused	40 / 80 25 / 50	2.0 / 2.4 2.0 / 2.4	70
339-1UYSYGW/S530-A3	5	● Brilliant Yellow ● Brilliant Yellow Green	Round	589 / 573	White Diffused	63 / 100 32 / 50	2.0 / 2.4 2.0 / 2.4	70
339-1UYUBW/S530-A4	5	● Brilliant Yellow ● Blue	Round	589 / 470	White Diffused	25 / 50 16 / 32	2.0 / 2.4 3.5 / 4.3	100



UNIT : mm

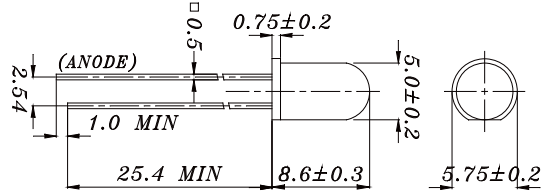


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
383-2SUBC/C470/S400-A6	5	● Blue	Round	470	Water Clear	1600 / 3200	3.4 / 4.0	20
383-2SURC/S400-A6	5	● Brilliant Red	Round	624	Water Clear	4000 / 6300	2.0 / 2.4	6
383-2SURC/S400-A8	5	● Brilliant Red	Round	624	Water Clear	6300 / 12500	2.0 / 2.4	6
383-2SURC/S530-A3	5	● Brilliant Red	Round	624	Water Clear	1000 / 2500	2.0 / 2.4	6
383-2SURC/S530-A6	5	● Brilliant Red	Round	624	Water Clear	4000 / 6300	2.0 / 2.4	6
383-2SYGC/S530-E2	5	● Brilliant Yellow Green	Round	573	Water Clear	160 / 320	2.0 / 2.4	10
383-2SYGD/S530-E2	5	● Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	25
383-2USOC/S530-A6	5	● Reddish Orange	Round	615	Water Clear	6300 / 8000	2.0 / 2.4	6
383-2UYC/S400-A6	5	● Brilliant Yellow	Round	589	Water Clear	4000 / 8000	2.0 / 2.4	6
383-2UYC/S530-A3	5	● Brilliant Yellow	Round	589	Water Clear	2713 / 4263	2.0 / 2.4	6

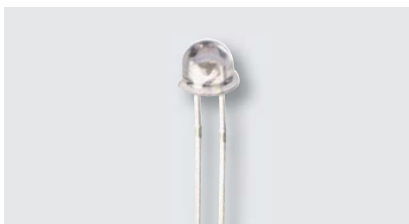
LED Lamps | 5mm Round Type



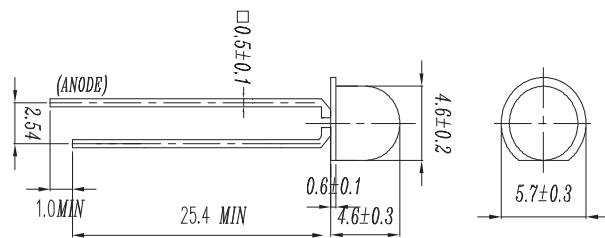
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1383-2SDRD/S530-A3	5	Deep Red	Round	639	Color Diffused	160 / 320	2.0 / 2.4	30
1383-2SURD/S530-A3	5	Brilliant Red	Round	624	Color Diffused	250 / 500	2.0 / 2.4	40
1383SDRD/S530-A3	5	Deep Red	Round	639	Color Diffused	160 / 320	2.0 / 2.4	30
1383SURD/S530-A3	5	Brilliant Red	Round	624	Trans	400 / 800	2.0 / 2.4	25
1383SYGD/S530-E2	5	Brilliant Yellow Green	Round	573	Color Diffused	100 / 200	2.0 / 2.4	25
1383SYGT/S530-E2	5	Brilliant Yellow Green	Round	573	Trans	630 / 1250	2.0 / 2.4	20
1383UYD/S530-A3	5	Brilliant Yellow	Round	589	Color Diffused	400 / 800	2.0 / 2.4	25



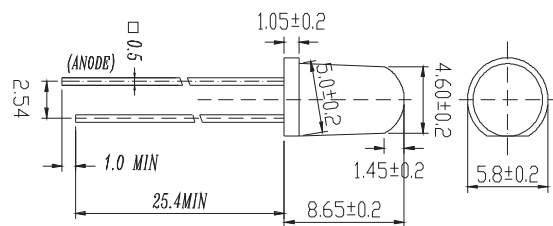
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
6324-15SUBC/S400-X10	4.6	Blue	Round	470	Water Clear	250 / 500	3.4 / 4.0	60
6324-15SURC/S400-A9	4.6	Brilliant Red	Round	624	Water Clear	160 / 320	2.0 / 2.4	100

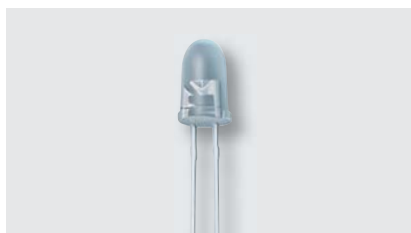


UNIT : mm

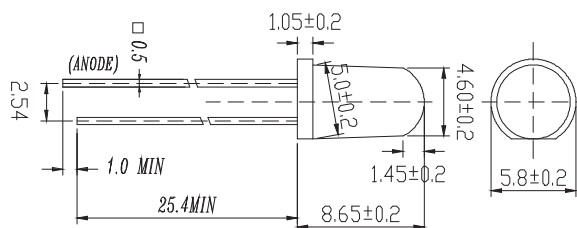


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
7343-2SURC/S400-A9	4.6	Brilliant Red	Round	624	Water Clear	2500 / 3200	2.0 / 2.4	20
7343-2SURD/S530-A3	4.6	Brilliant Red	Round	624	Color Diffused	160 / 320	2.0 / 2.4	40
7343-2SYGD/S530-E3	4.6	Brilliant Yellow Green	Round	573	Color Diffused	63 / 125	2.0 / 2.4	40
7343-2USRC/S1060	4.6	Dark Red	Round	631	Water Clear	2500 / 4000	2.0 / 2.6	30
7343-2UYC/H2/S400-A9	4.6	Brilliant Yellow	Round	589	Water Clear	1600 / 2500	2.0 / 2.4	30
7343-2UYC/S1060	4.6	Brilliant Yellow	Round	589	Water Clear	1600 / 2500	2.0 / 2.6	30
7343-2UYC/S400-A9	4.6	Brilliant Yellow	Round	589	Water Clear	1600 / 3200	2.0 / 2.4	30
7343-2UYC/S530-A3	4.6	Brilliant Yellow	Round	589	Water Clear	1000 / 2000	2.0 / 2.4	15

LED Lamps ■ 5mm Round Type

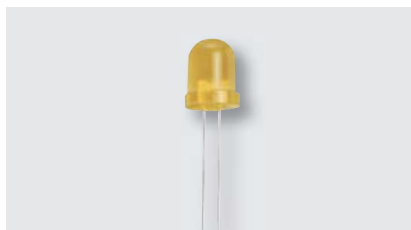


UNIT : mm

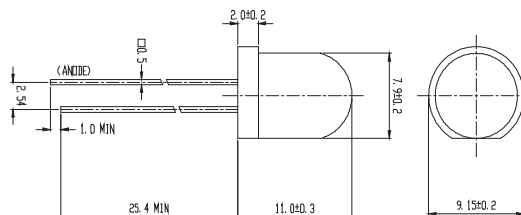


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
7344-15SUBC/C470/S400-A6	4.6	Blue	Round	470	Water Clear	1000 / 2000	3.4 / 4.0	30
7344-15SUGC/S400-A5	4.6	Brilliant Green	Round	525	Water Clear	5000 / 8000	3.4 / 4.0	30
7344-15SUGC/S400-X6	4.6	Brilliant Green	Round	525	Water Clear	8000 / 11000	3.4 / 4.0	20

LED Lamps ■ 8mm Round Type

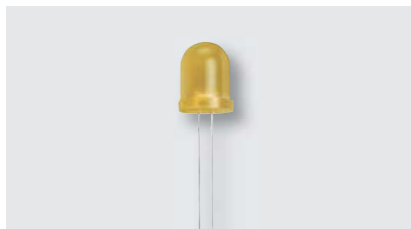


UNIT : mm

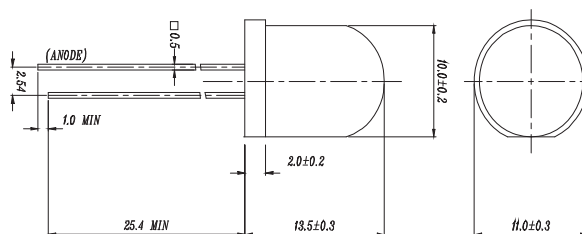


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
393-2SURD/S530-A3	7.9	Brilliant Red	Round	624	Color Diffused	63 / 125	2.0 / 2.4	60
393UYD/S530-A3	7.9	Brilliant Yellow	Round	589	Color Diffused	80 / 125	2.0 / 2.4	60

LED Lamps ■ 10mm Round Type



UNIT : mm

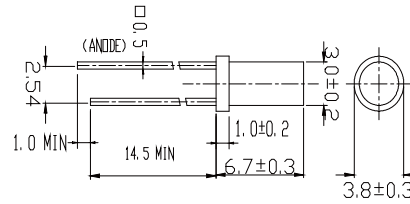


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
363-2SURD/S530-A3	10	Brilliant Red	Round	624	Color Diffused	63 / 125	2.0 / 2.4	40
363-2SYGD/S530-E2	10	Brilliant Yellow Green	Round	573	Color Diffused	16 / 32	2.0 / 2.4	30
363SYGD/S530-E2	10	Brilliant Yellow Green	Round	573	Color Diffused	16 / 32	2.0 / 2.4	40

LED Lamps ■ 3mm Cylindrical



UNIT : mm

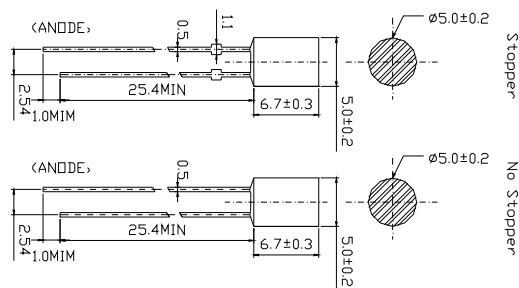


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
414-10UYD/S530-A3	3	● Brilliant Yellow	Cylindrical	589	Color Diffused	25 / 40	2.0 / 2.4	120

LED Lamps ■ 5mm Cylindrical



UNIT : mm

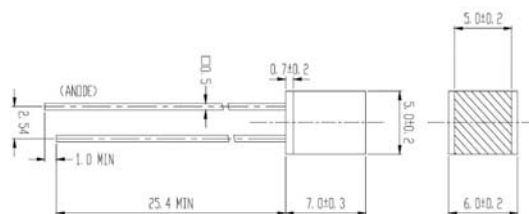


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
423-2ASUGC/S400-A6/P	5	● Brilliant Green	Cylindrical	525	Water Clear	450 / 565	3.5 / 3.9	90
423-2UYC/S530-A6	5	● Brilliant Yellow	Cylindrical	589	Water Clear	100 / 200	2.0 / 2.4	90

LED Lamps ■ 5mm Square



UNIT : mm

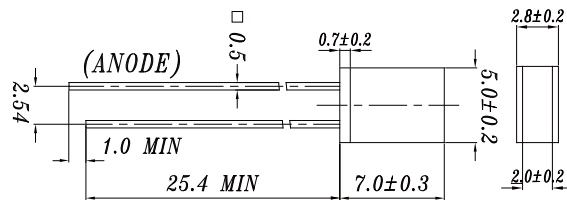


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
583SURD/S530-A3	5x5	● Brilliant Red	Square	624	Color Diffused	12.5 / 20	2.0 / 2.4	130
583SYGD/S530-E2	5x5	● Brilliant Yellow Green	Square	573	Color Diffused	2.5 / 5	2.0 / 2.4	170
583UYD/S530-A3	5x5	● Brilliant Yellow	Square	589	Color Diffused	10 / 20	2.0 / 2.4	170

LED Lamps | Rectangular



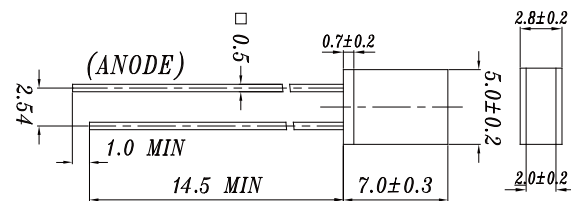
UNIT : mm



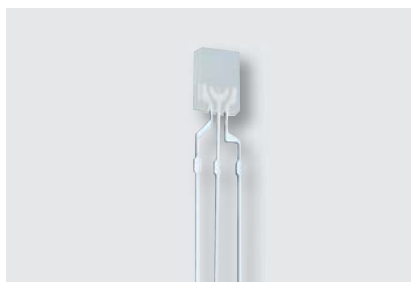
Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
513SURD/S530-A3	2x5	● Brilliant Red	Rectangle	624	Color Diffused	10 / 20	2.0 / 2.4	180
513SYGD/S530-E2	2x5	● Brilliant Yellow Green	Rectangle	573	Color Diffused	6.3 / 12.5	2.0 / 2.4	140



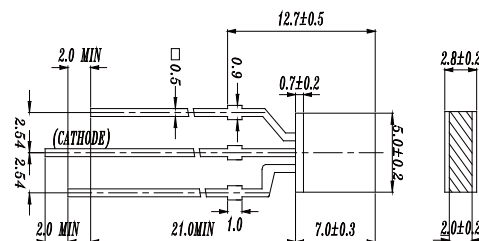
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
514SURD/S530-A3	2x5	● Brilliant Red	Rectangle	624	Color Diffused	10 / 20	2.0 / 2.4	180
514SYGD/S530-E2	2x5	● Brilliant Yellow Green	Rectangle	573	Color Diffused	2.5 / 5.0	2.0 / 2.4	180
514UYD/S530-A3	2x5	● Brilliant Yellow	Rectangle	589	Color Diffused	10 / 20	2.0 / 2.4	180



UNIT : mm

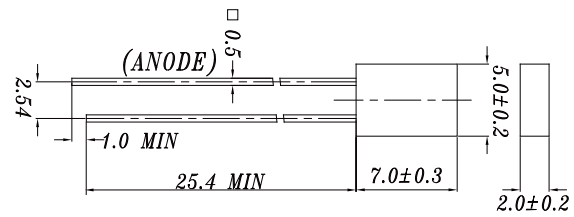


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
519-1SURSYGW/S530-A3	2x5	● Brilliant Red ● Brilliant Yellow Green	Rectangle	624 / 573	White Diffused	6.3 / 12.5 2.5 / 5.0	2.0 / 2.4 2.0 / 2.4	180

LED Lamps | Rectangular



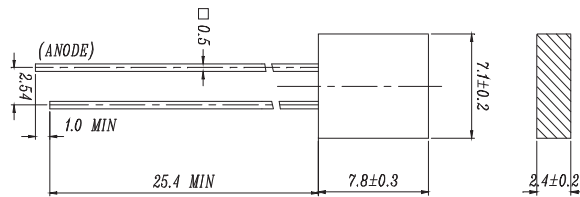
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
523-2SDRD/S530-A3	2x5	Deep Red	Rectangle	639	Color Diffused	10 / 16	2.0 / 2.4	120
523-2SURD/S530-A3	2x5	Brilliant Red	Rectangle	624	Color Diffused	16 / 32	2.0 / 2.4	120
523-2UYD/S530-A3	2x5	Brilliant Yellow	Rectangle	589	Color Diffused	6.3 / 12.5	2.0 / 2.4	180
523SURD/S530-A3	2x5	Brilliant Red	Rectangle	624	Color Diffused	16 / 25	2.0 / 2.4	170
523SYGD/S530-E2	2x5	Brilliant Yellow Green	Rectangle	573	Color Diffused	4 / 8	2.0 / 2.4	150
523UYD/S530-A3	2x5	Brilliant Yellow	Rectangle	589	Color Diffused	16 / 32	2.0 / 2.4	180



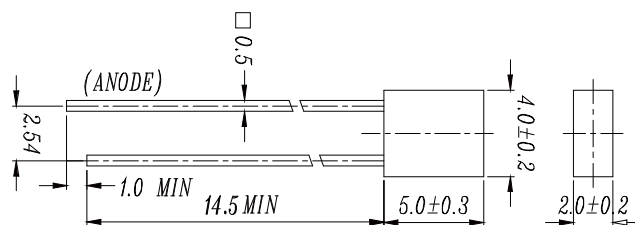
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
573SURD/S530-A3	2.4x7.1	Brilliant Red	Rectangular	624	Color Diffused	16 / 25	2.0 / 2.4	120
573SYGD/S530-E2	2.4x7.1	Brilliant Yellow Green	Rectangular	573	Color Diffused	2.5 / 5.0	2.0 / 2.4	180



UNIT : mm

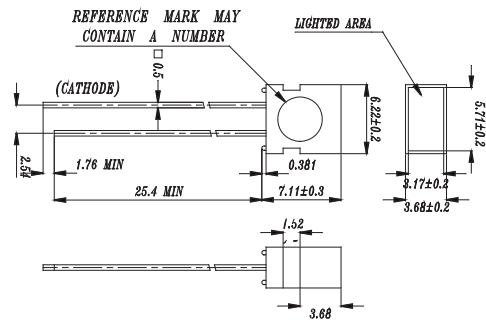


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
594SUBC/C470/S400-A4	2x4	Blue	Rectangular	470	Water Clear	40 / 63	3.4 / 4.0	100
594SURD/S530-A3	2x4	Brilliant Red	Rectangular	624	Color Diffused	10 / 16	2.0 / 2.4	170
594SYGD/S530-E2	2x4	Brilliant Yellow Green	Rectangular	573	Color Diffused	4.0 / 8.0	2.0 / 2.4	180
594UYD/S530-A3	2x4	Brilliant Yellow	Rectangular	589	Color Diffused	10 / 20	2.0 / 2.4	180

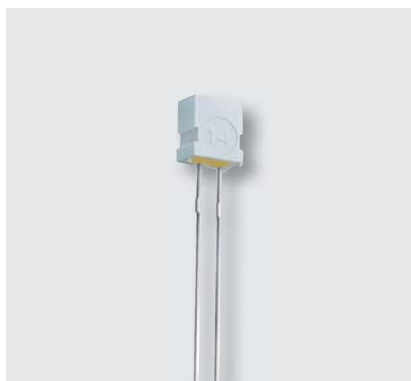
LED Lamps | Rectangular



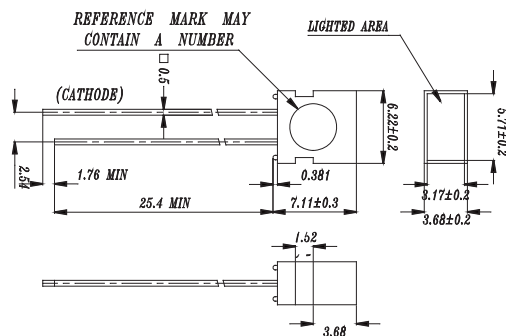
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1003SURD/S530-A3	3.68x6.22	● Brilliant Red	Rectangular	624	Color Diffused	25 / 50	2.0 / 2.4	110
1003SYGD/S530-E2	3.68x6.22	● Brilliant Yellow Green	Rectangular	573	Color Diffused	6.3 / 12.5	2.0 / 2.4	110
1003UYD/S530-A3	3.68x6.22	● Brilliant Yellow	Rectangular	589	Color Diffused	25 / 50	2.0 / 2.4	110



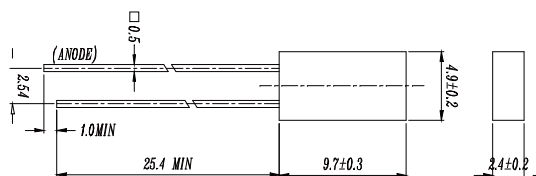
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1006SYGSURW/S530-A3	3.68x6.22	● Brilliant Yellow Green ● Brilliant Red	Rectangular	573 / 624	White Diffused	10 / 20 25 / 50	2.0 / 2.4 2.0 / 2.4	120



UNIT : mm

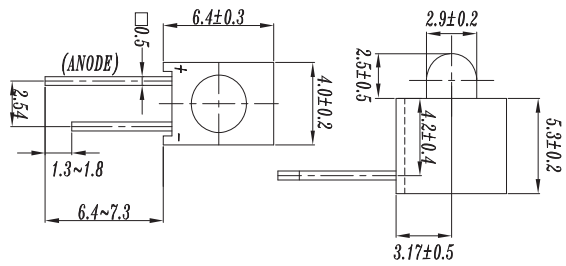


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
1533SYGD/S530-E2/O	2.4x4.9	● Brilliant Yellow Green	Round	573	Color Diffused	2.5 / 5.0	2.0 / 2.4	180

LED Lamps | 3mm Assembly LED



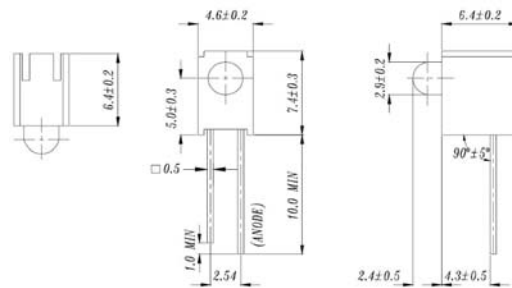
UNIT : mm



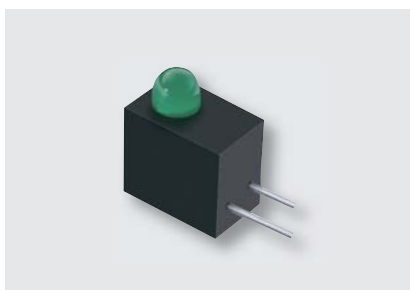
Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A214B/SUR/S530-A3	3	● Brilliant Red	Round	624	Color Diffused	63 / 120	2.0 / 2.4	60
A214B/SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	16 / 32	2.0 / 2.4	60
A214B/UY/S530-A3	3	● Brilliant Yellow	Round	589	Color Diffused	50 / 100	2.0 / 2.4	60



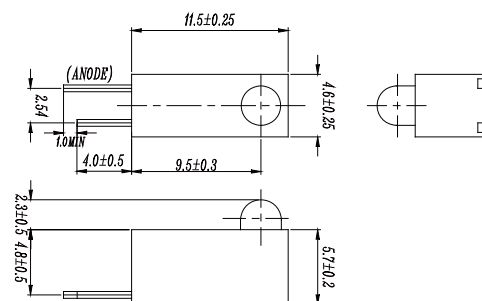
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A264B/SUB/S400-A4	3	● Blue	Round	470	Color Diffused	160 / 250	3.4 / 4.0	35
A264B/SUR/S530-A3	3	● Brilliant Red	Round	624	Color Diffused	63 / 120	2.0 / 2.4	60
A264B/SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	25 / 50	2.0 / 2.4	60
A264B/UY/S530-A3	3	● Brilliant Yellow	Round	589	Color Diffused	50 / 100	2.0 / 2.4	60



UNIT : mm

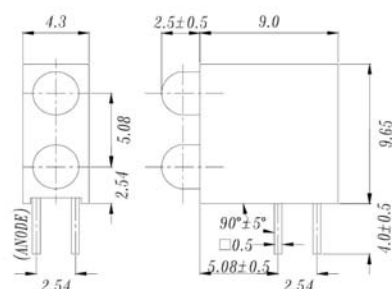


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_V (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A274B/SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	25 / 50	2.0 / 2.4	60

LED Lamps | 3mm Assembly LED



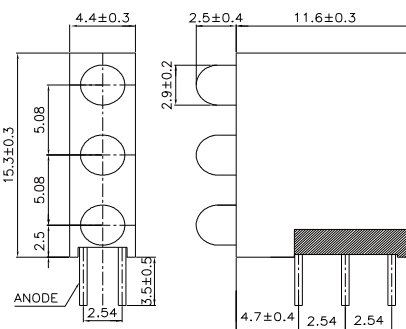
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A694B/2SUR/S530-A3	3	● Brilliant Red	Round	624	Color Diffused	10 / 25	2.0 / 2.4	60
A694B/2SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	25 / 50	2.0 / 2.4	60
A694B/2UY/S530-A3	3	● Brilliant Yellow	Round	589	Color Diffused	16 / 32	2.0 / 2.4	60
A694B/SURSYG/S530-A3	3	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	Color Diffused	40 / 80 25 / 50	2.0 / 2.4 2.0 / 2.4	60 / 60
A694B/SYGUY/S530-A3	3	● Brilliant Yellow Green ● Brilliant Yellow	Round	573 / 589	Color Diffused	25 / 50 40 / 80	2.0 / 2.4 2.0 / 2.4	60 / 60

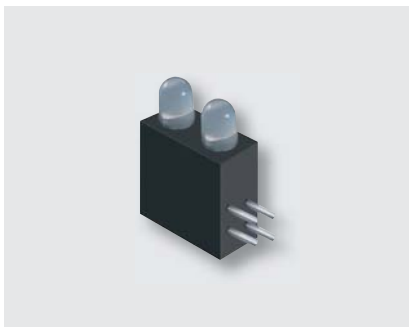


UNIT : mm

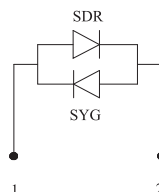
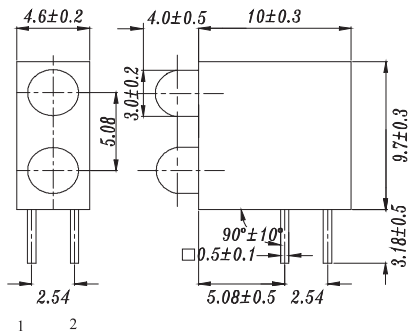


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A1394B/3SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	25 / 50	2.0 / 2.4	60

LED Lamps ■ 3mm Assembly LED



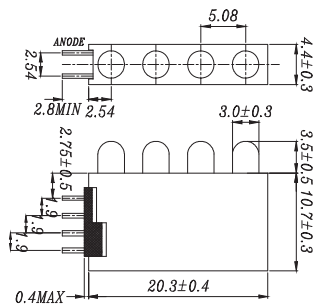
UNIT : mm



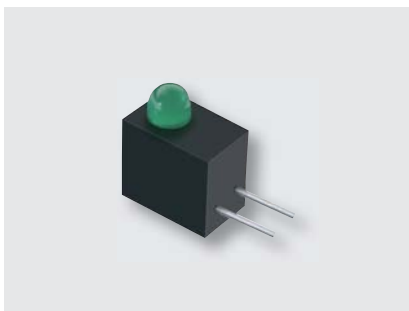
Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A2784B/2SYGSDRW/ S530-A3	3	Brilliant Yellow Green Deep Red	Round	573 / 639	White Diffused	16 / 32 25 / 50	2.0 / 2.4 2.0 / 2.4	50



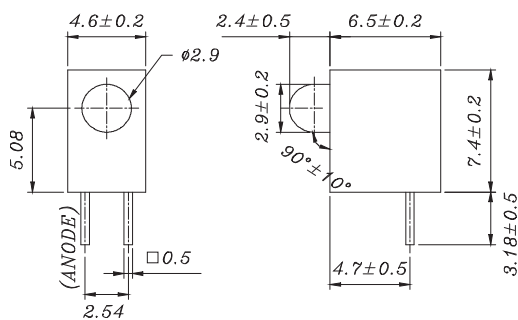
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A1844B/4SYG/S530-E2	3	● Brilliant Yellow Green	Round	573	Color Diffused	16 / 32	2.0 / 2.4	60



UNIT : mm

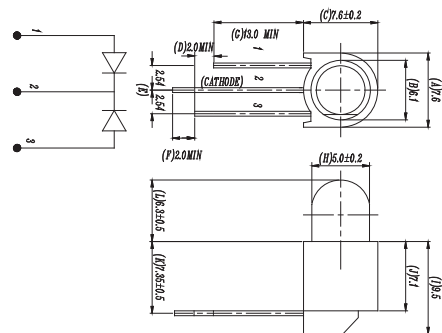


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ ClE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A2774B/SYG/S530-E2	2.9	● Brilliant Yellow Green	Round	573	Color Diffused	25 / 50	2.0 / 2.4	60

LED Lamps | 5mm Assembly LED



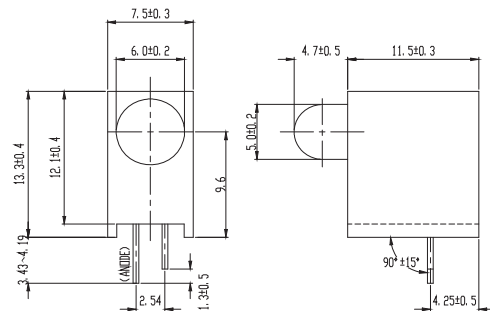
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A1479-1B/SURSYGW/ S530-A3	5	● Brilliant Red ● Brilliant Yellow Green	Round	624 / 573	White Diffused	25 / 50 16 / 32	2.0 / 2.4 2.0 / 2.4	100



UNIT : mm

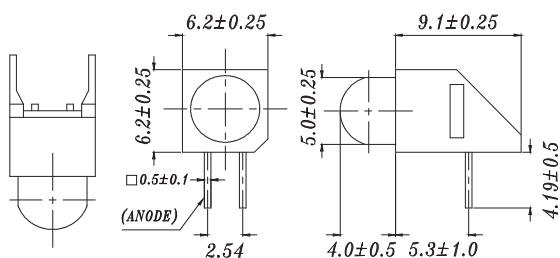


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A203B/SUR/S530-A3	5	● Brilliant Red	Round	624	Color Diffused	100 / 200	2.0 / 2.4	30
A203B/SYG/S530-E2	5	● Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	45
A203B/UY/S530-A3	5	● Brilliant Yellow	Round	589	Color Diffused	100 / 200	2.0 / 2.4	30

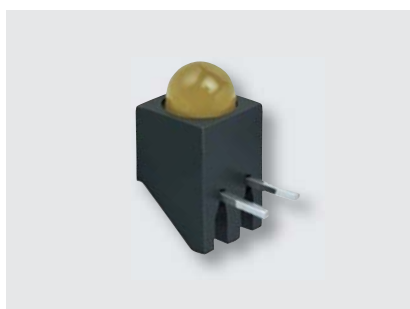
LED Lamps | 5mm Assembly LED



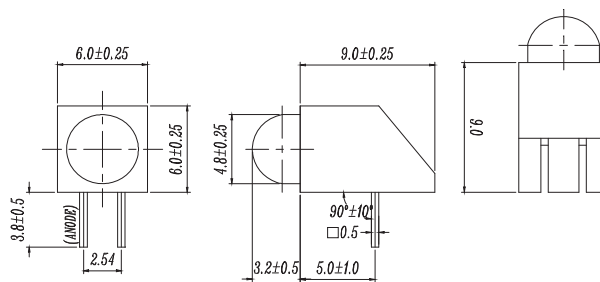
UNIT : mm



Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A253B/SUR/S530-A3	5	● Brilliant Red	Round	624	Color Diffused	100 / 200	2.0 / 2.4	30
A253B/SYG/S530-E2	5	● Brilliant Yellow Green	Round	573	Color Diffused	40 / 80	2.0 / 2.4	45



UNIT : mm

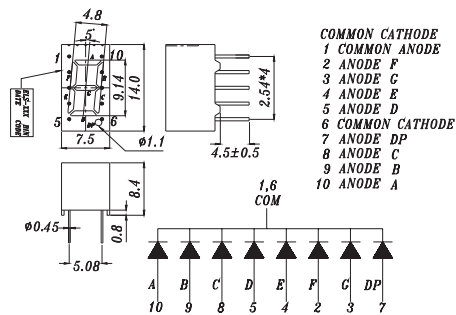


Product	Size (mm)	Color	Lens Type	λ_d (nm)/ CIE(x,y)	Resin Color	I_v (Min/Typ)	V_F (Typ/Max)	Viewing Angle (°)
A93B/SUR/S530-A3	4.7	● Brilliant Red	Round	624	Color Diffused	100 / 250	2.0 / 2.4	40

LED Digital Displays | Chip On Board Display | Single Digit Display



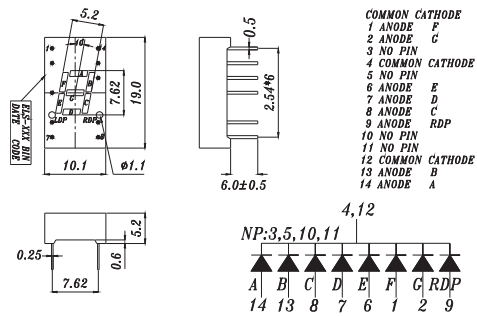
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S315SURWA/S530-A3	9.14 (0.3)	● Brilliant Red	4.8	CC	624	White	Gray	4.0 / 8.0
S315SYGWA/S530-E2	9.14 (0.3)	● Brilliant Yellow Green	4.8	CC	573	White	Gray	2.0 / 3.2



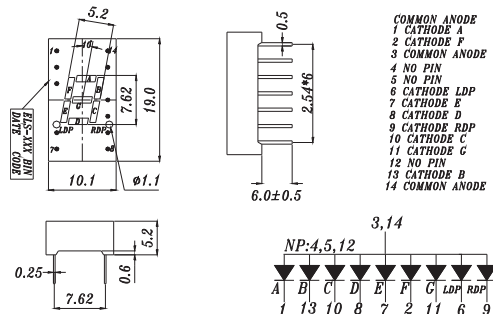
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S321SURWA/S530-A3	7.62 (0.3)	● Brilliant Red	5.2	CC	624	White	Gray	4.0 / 8.9
S321USOWA/S530-A4	7.62 (0.3)	● Reddish Orange	5.2	CC	615	White	Gray	7.8 / 17.6
S321SYGWA/S530-E2	7.62 (0.3)	● Brilliant Yellow Green	5.2	CC	573	White	Gray	2.8 / 6.4



UNIT : mm

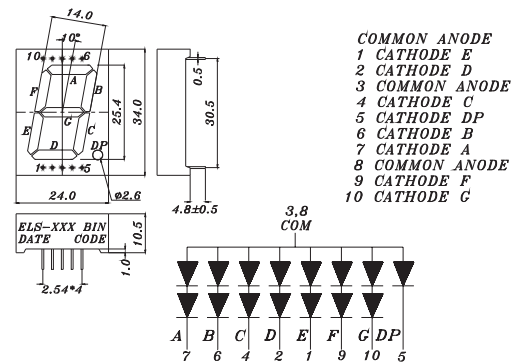


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S322SURWA/S530-A3	7.62 (0.3)	● Brilliant Red	5.2	CA	624	White	Gray	5.6 / 11.0
S322USOWA/S530-A4	7.62 (0.3)	● Reddish Orange	5.2	CA	615	White	Gray	7.8 / 17.6
S322SYGWA/S530-E2	7.62 (0.3)	● Green	5.2	CA	573	White	Gray	2.0 / 4.5
S322UBWA/C470	7.62 (0.3)	● Blue	5.2	CA	470	White	Gray	7.8 / 17.6

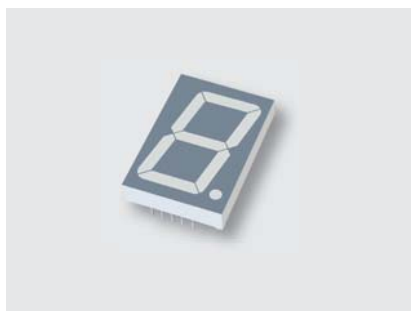
LED Digital Displays | Chip On Board Display | Single Digit Display



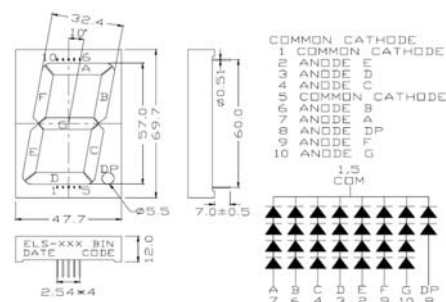
UNIT : mm



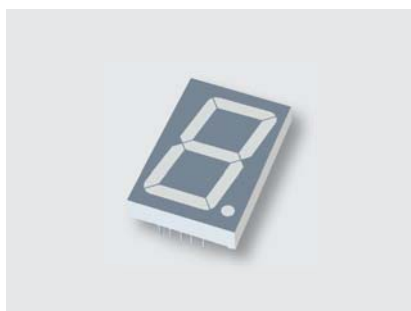
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S1006SURWA/S530-A3	25.4 (1)	● Brilliant Red	14	CA	624	White	Gray	15 / 24



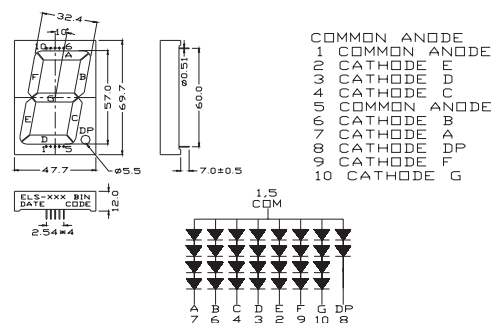
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S2325SURWA/S530-A3	57 (2)	● Brilliant Red	32.4	CC	624	White	Gray	15 / 34



UNIT : mm

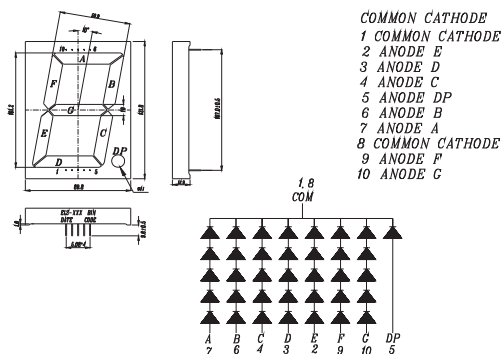


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S2326SURWA/S530-A3	57 (2)	● Brilliant Red	32.4	CA	624	White	Gray	15 / 34
S2326USOWA/S530-A4	57 (2)	● Reddish Orange	32.4	CA	615	White	Gray	30 / 67
S2326SYGWA/S530-E2	57 (2)	● Brilliant Yellow Green	32.4	CA	573	White	Gray	5.6 / 12.5
S2326UBWA/C470	57 (2)	● Blue	32.4	CA	470	White	Gray	15 / 34

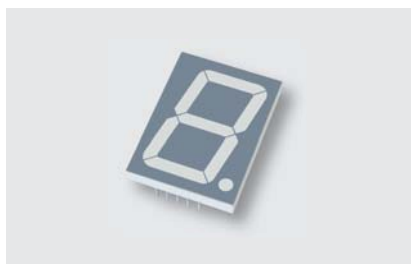
LED Digital Displays | Chip On Board Display | Single Digit Display



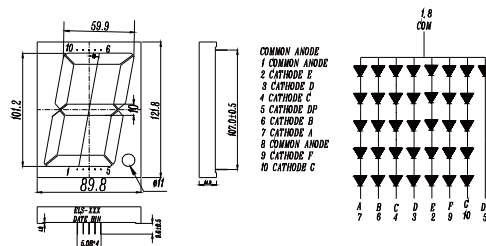
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S4005USOWA/S530-A3	101.2 (4)	● Reddish Orange	59.9	CC	615	White	Gray	15 / 34
S4005SYGWA/S530-E2	101.2 (4)	● Brilliant Yellow Green	59.9	CC	573	White	Gray	4.0 / 6.4



UNIT : mm

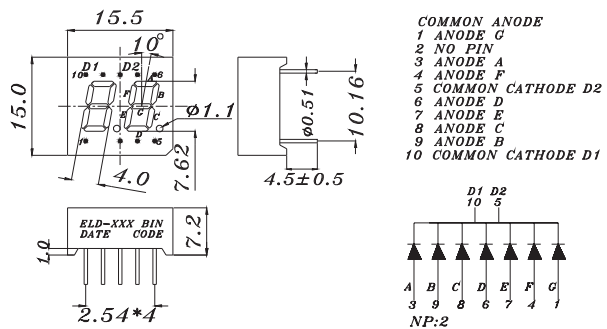


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S4006SURWA/S530-A3	101.2 (4)	● Brilliant Red	59.9	CA	624	White	Gray	15 / 34
S4006USOWA/S530-A4	101.2 (4)	● Reddish Orange	59.9	CA	615	White	Gray	15 / 34

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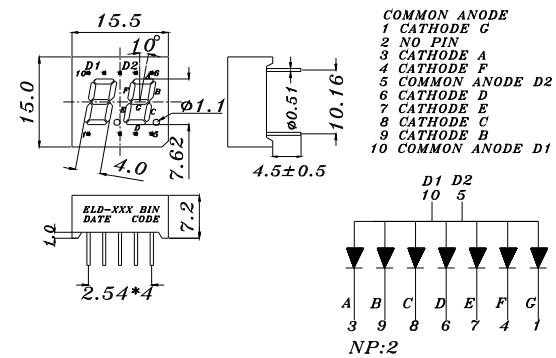
UNIT : mm



Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D305SURWA/S530-A3	7.62 (0.3)	● Brilliant Red	4	CC	624	White	Gray	4.0 / 6.4



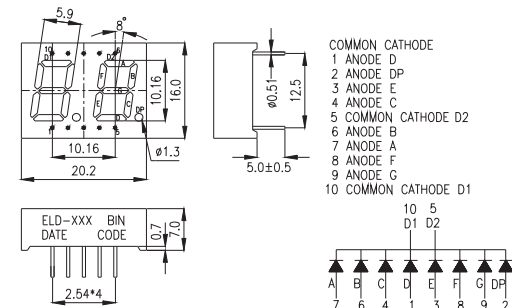
UNIT : mm



Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D306SURWA/S530-A3	7.62 (0.3)	● Brilliant Red	4	CA	624	White	Gray	4.0 / 6.4



UNIT : mm

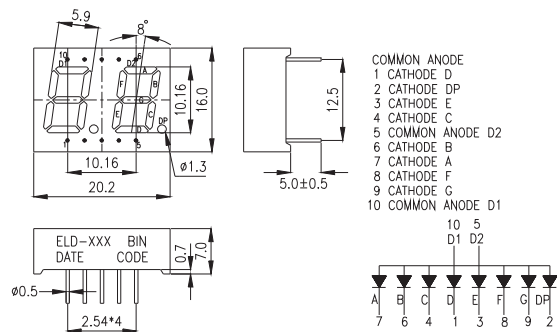


Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D425SURWA/S530-A3	10.16 (0.4)	● Brilliant Red	5.9	CC	624	White	Gray	7.8 / 15.0
D425USOWA/S530-A4	10.16 (0.4)	● Reddish Orange	5.9	CC	615	White	Gray	11.0 / 24.0
D425SYGWA/S530-E2	10.16 (0.4)	● Brilliant Yellow Green	5.9	CC	573	White	Gray	2.0 / 3.2

LED Digital Displays | Chip On Board Display | Dual Digit Display



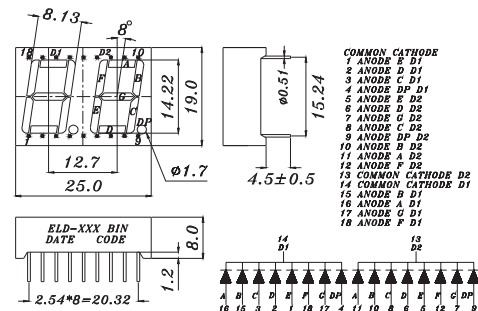
UNIT : mm



Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D426SURWB/S530-A3	10.16 (0.4)	Brilliant Red	5.9	CA	624	White	Black	7.8 / 15
D426USOWA/S530-A3	10.16 (0.4)	Reddish Orange	5.9	CA	615	White	Gray	11 / 24
D426UYOWB/S530-A3	10.16 (0.4)	Brilliant Yellow	5.9	CA	589	White	Black	5.6 / 12.5
D426SYGWA/S530-E2	10.16 (0.4)	Brilliant Yellow Green	5.9	CA	573	White	Gray	2 / 3.2



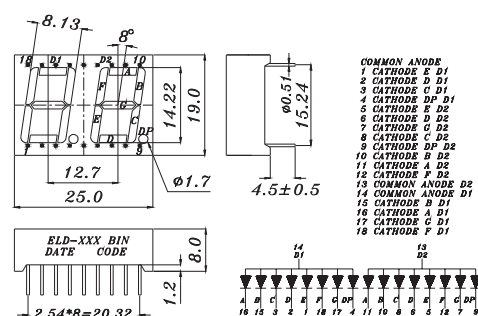
UNIT : mm



Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D511SURWB/S530-A3	14.22 (0.5)	Brilliant Red	8.13	CC	624	White	Black	7.8 / 15



UNIT : mm

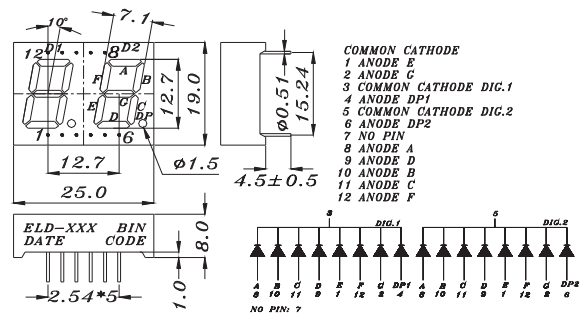


Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D512SURWB/S530-A3	14.22 (0.5)	Brilliant Red	8.13	CA	624	White	Black	7.8 / 15
D512UBWA/C470	14.22 (0.5)	Blue	8.13	CA	470	White	Gray	4 / 6.4

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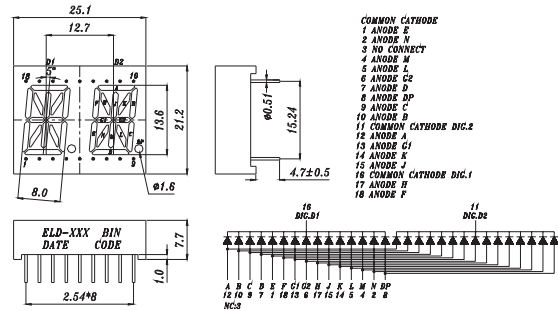
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D515SURWA/S530-A3	12.7 (0.5)	Brilliant Red	7.1	CC	624	White	Gray	7.8 / 15



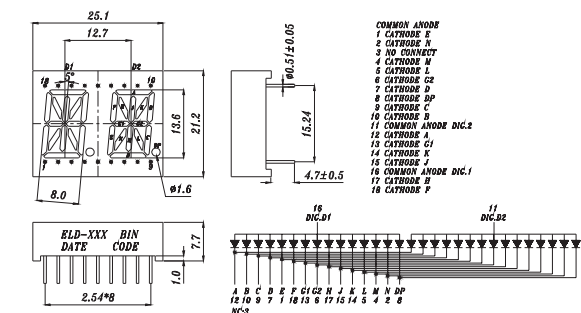
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D525SURWA/S530-A3	13.6 (0.5)	Brilliant Red	8	CC	624	White	Gray	7.8 / 12.5
D525SYGWA/S530-E2	13.6 (0.5)	Brilliant Yellow Green	8	CC	573	White	Gray	2.8 / 4.5
D525USOWA/S530-A3	13.6 (0.5)	Reddish Orange	8	CC	615	White	Gray	5.6 / 12.5



UNIT : mm

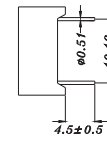
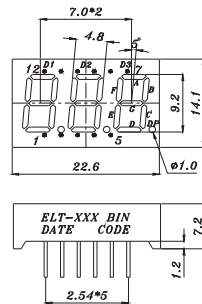


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
D526SURWA/S530-A3	13.6 (0.5)	Brilliant Red	8	CA	624	White	Gray	7.8 / 12.5

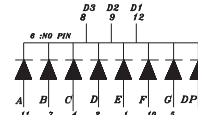
LED Digital Displays | Chip On Board Display | Three Digit Display



UNIT : mm



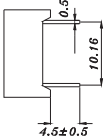
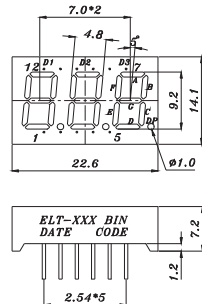
COMMON CATHODE
 1 ANODE E
 2 ANODE D
 3 ANODE DP
 4 ANODE C
 5 ANODE G
 6 NO PIN
 7 ANODE B
 8 COMMON CATHODE DIG.3
 9 COMMON CATHODE DIG.2
 10 ANODE F
 11 ANODE A
 12 COMMON CATHODE DIG.1



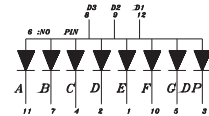
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
T315SYGWA/S530-E2	9.2 (0.3)	Brilliant Yellow Green	4.8	CC	573	White	Gray	1.4 / 3.2



UNIT : mm



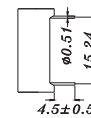
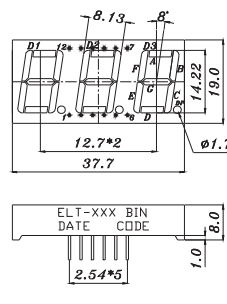
COMMON ANODE
 1 CATHODE E
 2 CATHODE D
 3 CATHODE DP
 4 CATHODE C
 5 CATHODE G
 6 NO PIN
 7 CATHODE B
 8 COMMON ANODE D3
 9 COMMON ANODE D2
 10 CATHODE F
 11 CATHODE A
 12 COMMON ANODE D1



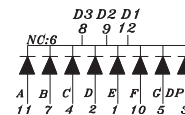
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
T316SURWA/S530-A3	9.2 (0.3)	Brilliant Red	4.8	CA	624	White	Gray	5.6 / 11
T316SYGWA/S530-E2	9.2 (0.3)	Brilliant Yellow Green	4.8	CA	573	White	Gray	1.4 / 3.2



UNIT : mm



COMMON CATHODE
 1 ANODE E
 2 ANODE D
 3 ANODE DP
 4 ANODE C
 5 ANODE G
 6 NO CONNECT
 7 ANODE B
 8 COMMON CATHODE D3
 9 COMMON CATHODE D2
 10 ANODE F
 11 ANODE A
 12 COMMON CATHODE D1

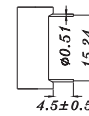
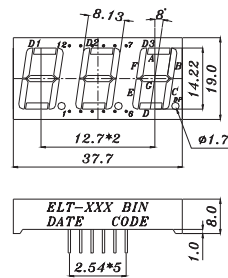


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
T511SURWA/S530-A3	14.22 (0.5)	Brilliant Red	8.13	CC	624	White	Gray	7.8 / 17.6
T511SYGWA/S530-E2	14.22 (0.5)	Brilliant Yellow Green	8.13	CC	573	White	Gray	2.8 / 4.5
T511UYOWA/S530-A3	14.22 (0.5)	Brilliant Yellow	8.13	CC	589	White	Gray	5.6 / 12.5

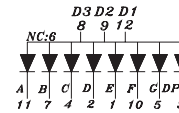
LED Digital Displays | Chip On Board Display | Three Digit Display



UNIT : mm



COMMON ANODE
 1 CATHODE E
 2 CATHODE D
 3 CATHODE DP
 4 CATHODE C
 5 CATHODE G
 6 NO CONNECT
 7 CATHODE B
 8 COMMON ANODE D3
 9 COMMON ANODE D2
 10 CATHODE F
 11 CATHODE A
 12 COMMON ANODE D1

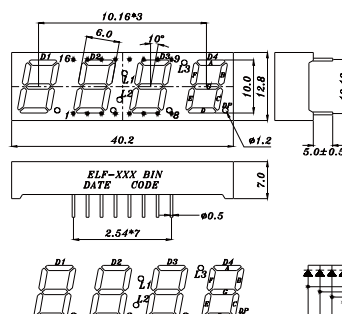


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
T512SURWA/S530-A3	14.22 (0.5)	● Brilliant Red	8.13	CA	624	White	Gray	7.8 / 17.6
T512SYGWA/S530-E2	14.22 (0.5)	● Brilliant Yellow Green	8.13	CA	573	White	Gray	2.8 / 4.5
T512UYOWA/S530-A3	14.22 (0.5)	● Brilliant Yellow	8.13	CA	589	White	Gray	5.6 / 12.5

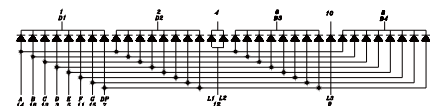
LED Digital Display | Chip On Board Display | Four Digit Display



UNIT : mm



COMMON CATHODE
 1 COMMON CATHODE D1
 2 COMMON CATHODE D2
 3 ANODE D
 4 COMMON CATHODE L1,L2
 5 ANODE E
 6 COMMON CATHODE D3
 7 ANODE DP
 8 COMMON CATHODE D4
 9 ANODE L3
 10 CATHODE L3
 11 ANODE F
 12 ANODE L1,L2
 13 ANODE C
 14 ANODE A
 15 ANODE G
 16 ANODE B

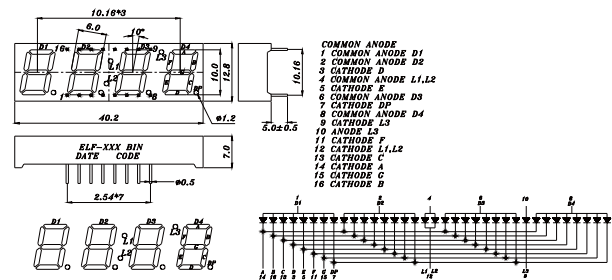


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
F415SURWA/S530-A3	10 (0.4)	● Brilliant Red	6	CC	624	White	Gray	5.6 / 8.9

LED Digital Displays | Chip On Board Display | Four Digit Display



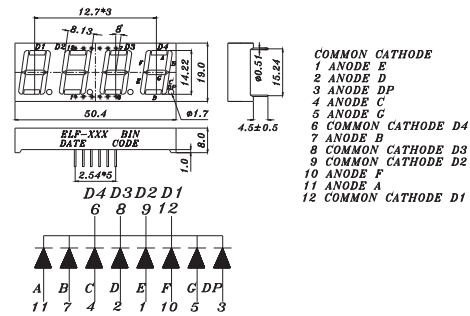
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
F416SYGWA/S530-E3	10 (0.4)	Brilliant Yellow Green	6	CA	573	White	Gray	4 / 8.9
F416SURWA/S530-A3/S685	10 (0.4)	Brilliant Red	6	CA	635	White	Gray	5.6 / 8.9



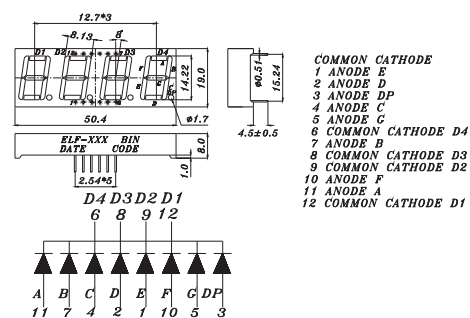
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
F511SURWA/S530-A3	14.22 (0.5)	Brilliant Red	8.13	CC	624	White	Gray	7.8 / 15
F511SYGWA/S530-E2	14.22 (0.5)	Brilliant Yellow Green	8.13	CC	573	White	Gray	4 / 4.5

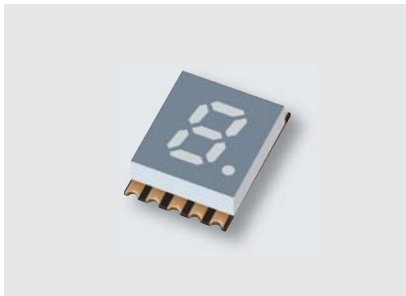


UNIT : mm

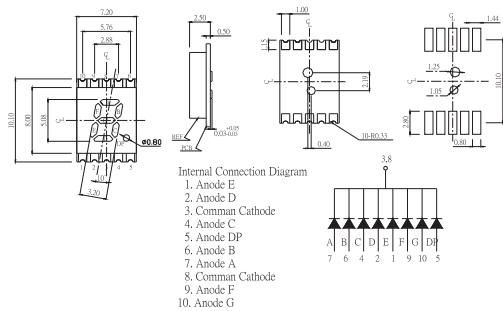


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
F512SURWA/S530-A3	14.22 (0.5)	Brilliant Red	8.13	CA	624	White	Gray	7.8 / 15
F512SYGWA/S530-E2	14.22 (0.5)	Brilliant Yellow Green	8.13	CA	573	White	Gray	2.8 / 4.5

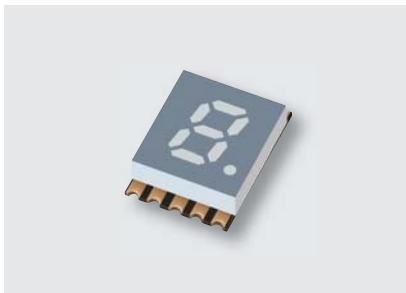
LED Digital Displays | SMD Display | Single Digit Display



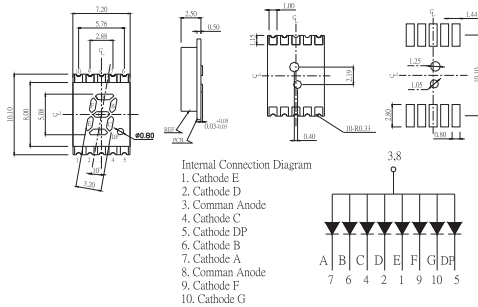
UNIT : mm



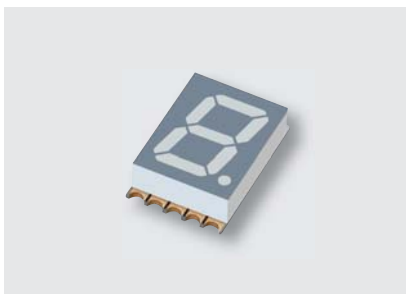
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS205SURWA/S530-A3/S290	5.08 (0.2)	● Brilliant Red	3.2	CC	624	White	Gray	5.6 / 13.7
SS205UYOWA/S530-A3/S290	5.08 (0.2)	● Brilliant Orange	3.2	CC	605	White	Gray	7.8 / 13.3
SS205UYWA/S530-A3/S290	5.08 (0.2)	● Brilliant Yellow	3.2	CC	589	White	Gray	7.8 / 16.3
SS205SYGWA/S530-E2/S290	5.08 (0.2)	● Brilliant Yellow Green	3.2	CC	573	White	Gray	4 / 11.5



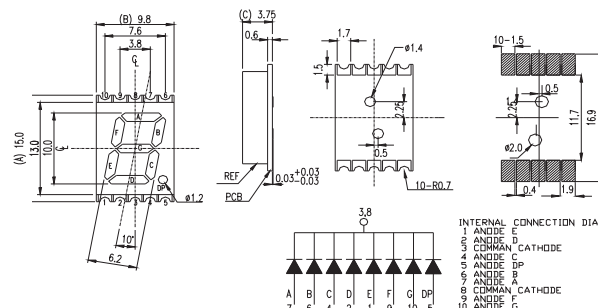
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS206SURWA/S530-A3/S290	5.08 (0.2)	● Brilliant Red	3.2	CA	624	White	Gray	5.6 / 13.7
SS206UYWA/S530-A3/S290	5.08 (0.2)	● Brilliant Yellow	3.2	CA	589	White	Gray	7.8 / 16.3

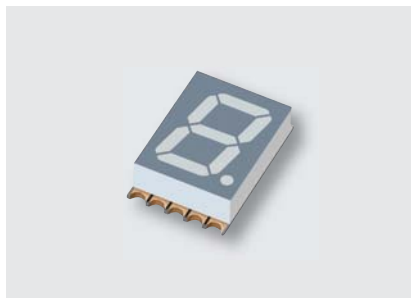


UNIT : mm

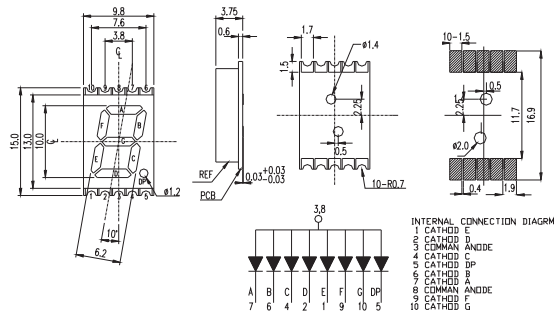


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS405SURWB/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CC	624	White	Black	7.8 / 16.5

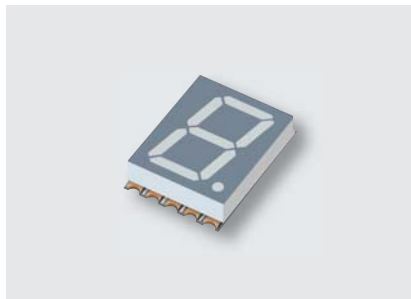
LED Digital Displays | SMD Display | Single Digit Display



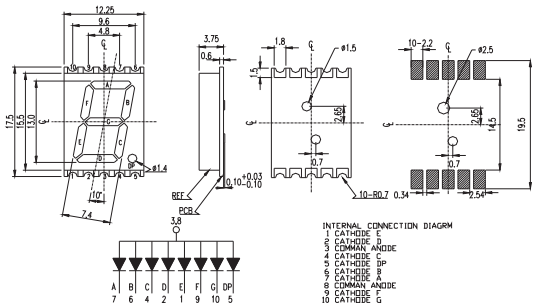
UNIT : mm



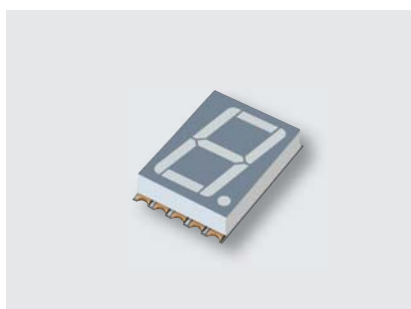
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS406SURWA/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CA	624	White	Gray	7.8 / 6.5



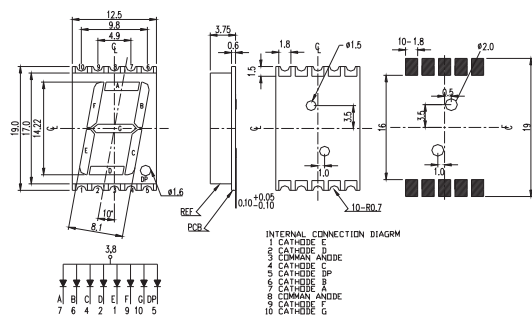
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
S506SYGWA/S530-E2	13.0 (0.5)	● Brilliant Yellow Green	7.4	CA	573	White	Gray	5.6 / 9.1

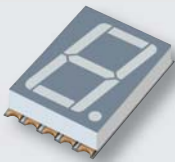


UNIT : mm

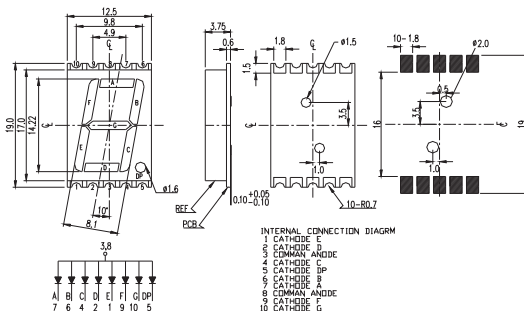


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS511SURWA/S530-A3/S290	14.22 (0.5)	● Brilliant Red	8.1	CC	624	White	Gray	15 / 23
SS511SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	8.1	CC	573	White	Gray	4 / 10.8

LED Digital Displays | SMD Display | Single Digit Display

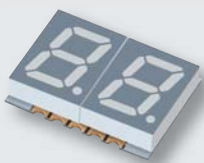


UNIT : mm

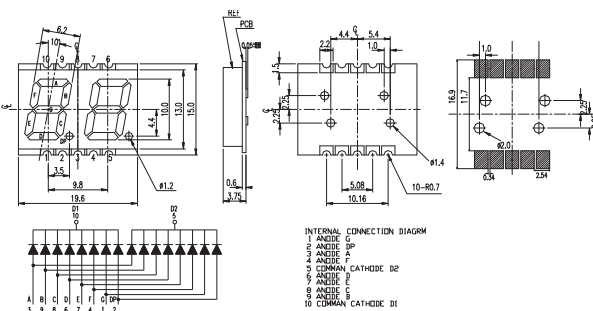


Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SS512SURWA/S530-A3/S290	14.22 (0.5)	● Brilliant Red	8.1	CA	624	White	Gray	15 / 23
SS512UBWA/C470/S290	14.22 (0.5)	● Blue	8.1	CA	470	White	Gray	3 / 3.7

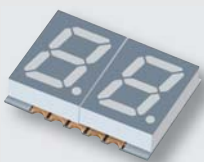
LED Digital Display | SMD Display | Dual Digit Display



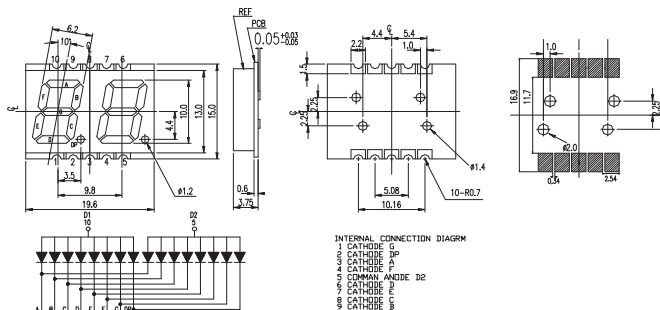
UNIT : mm



Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SD405SURWA/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CC	624	White	Gray	7.8 / 17.1

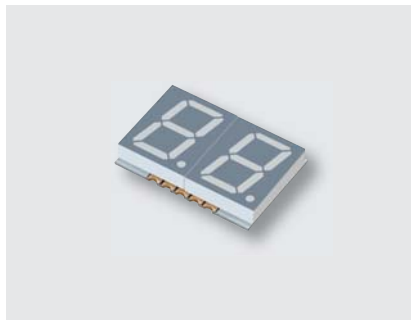


UNIT : mm

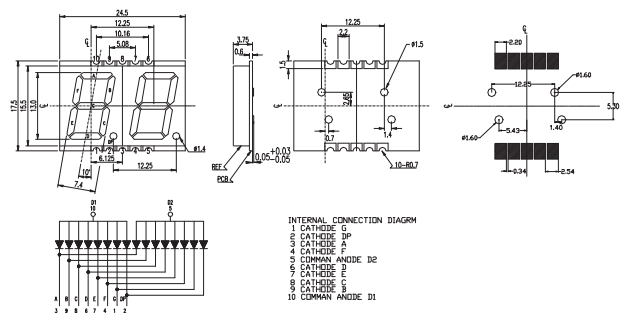


Product	Segement Height mm (inch)	Color	Segement Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SD406SURWA/S530-A4/S290	10 (0.4)	● Brilliant Red	6.2	CA	624	White	Gray	7.8 / 16.2
SD406SYGWA/S530-E2/S290	10 (0.4)	● Brilliant Yellow Green	6.2	CA	573	White	Gray	5.6 / 10.2

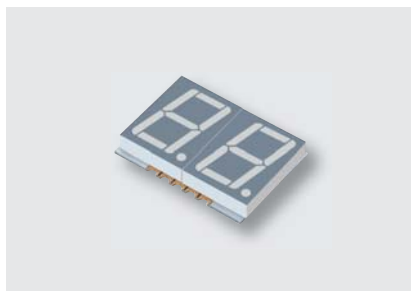
LED Digital Displays | SMD Display | Dual Digit Display



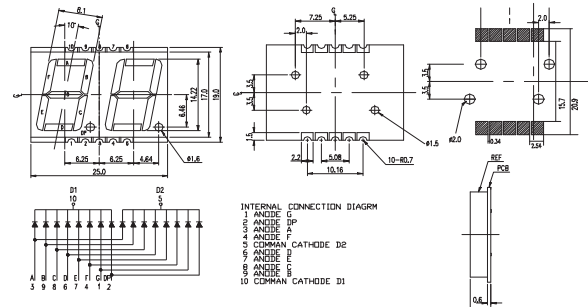
UNIT : mm



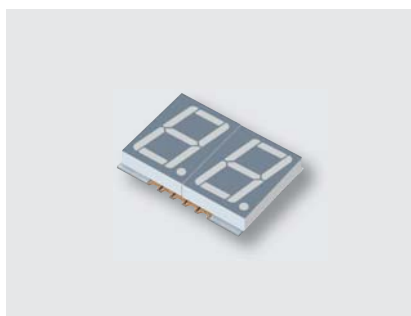
Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SD506SURWA/S530-A4/S290	13 (0.5)	● Brilliant Red	7.4	CA	624	White	Gray	7.8 / 15



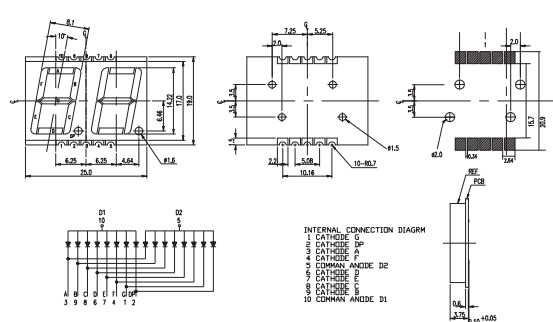
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SD511SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	8.1	CC	573	White	Gray	5.6 / 11.12



UNIT : mm

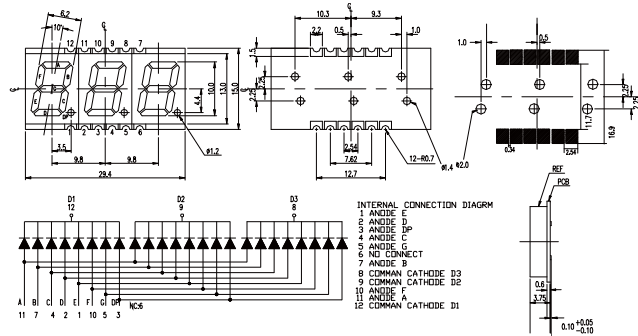


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SD512SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	8.1	CA	573	White	Gray	4 / 13.35

LED Digital Displays | SMD Display | Three Digit Display



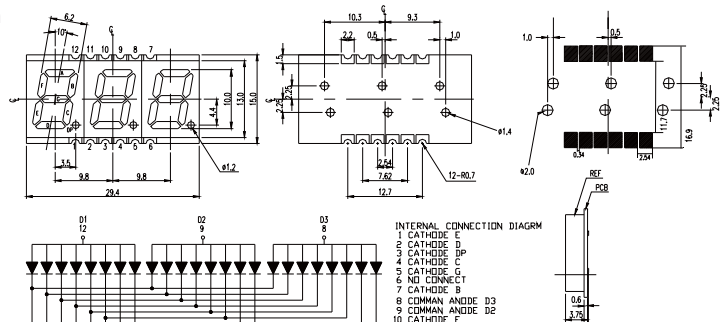
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
ST405SURWA/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CC	624	White	Gray	7.8 / 16.4



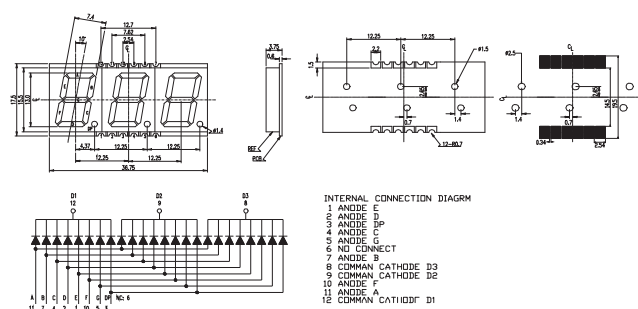
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
ST406SURWA/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CA	624	White	Gray	7.8 / 16.4



UNIT : mm

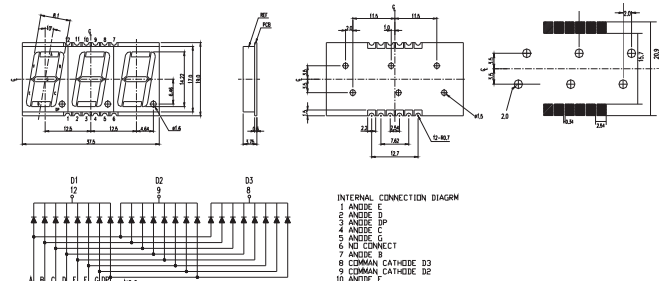


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
ST505SYGWA/S530-E2/S290	13 (0.5)	● Brilliant Yellow Green	7.4	CC	573	White	Gray	4 / 9.6

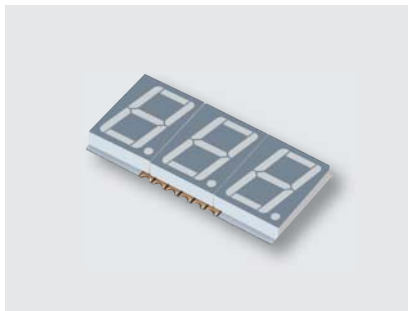
LED Digital Displays | SMD Display | Three Digit Display



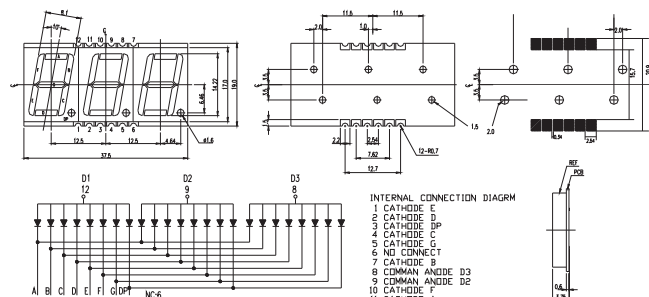
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
ST511SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	7.4	CC	573	White	Gray	4 / 9.6



UNIT : mm

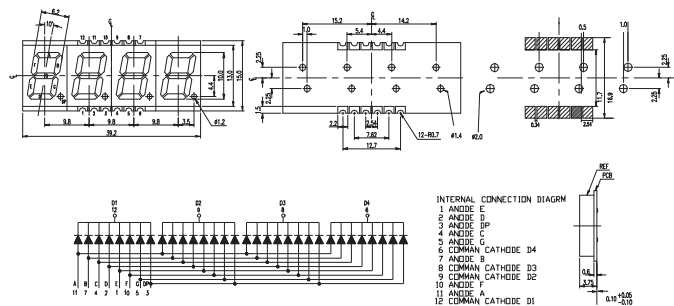


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
ST512SURWA/S530-A3/S290	14.22 (0.5)	● Brilliant Red	7.4	CA	624	White	Gray	11 / 21.6
ST512SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	7.4	CA	573	White	Gray	7.8 / 16.4

LED Digital Displays | SMD Display | Four Digit Display



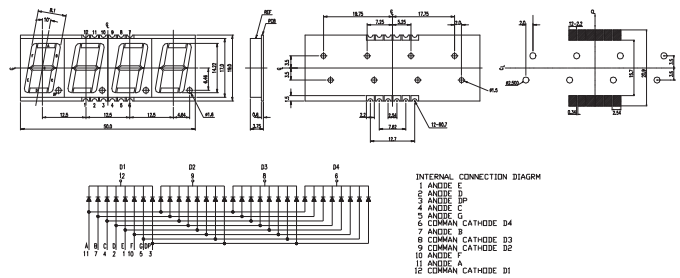
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SF405SURWA/S530-A3/S290	10 (0.4)	● Brilliant Red	6.2	CC	624	White	Gray	7.8 / 16.4
SF405SYGWA/S530-E2/S290	10 (0.4)	● Brilliant Yellow Green	6.2	CC	573	White	Gray	5.6 / 12.52



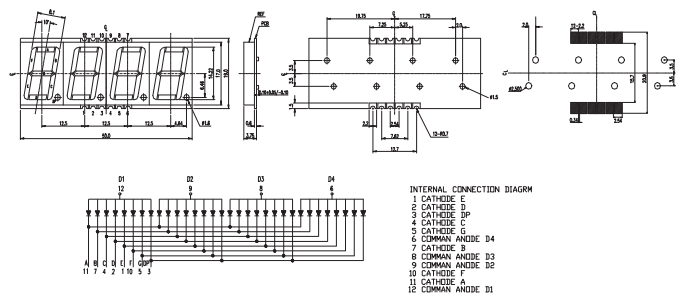
UNIT : mm



Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SF511SURWA/S530-A3/S290	14.22 (0.5)	● Brilliant Red	8.1	CC	624	White	Gray	11 / 23.4



UNIT : mm

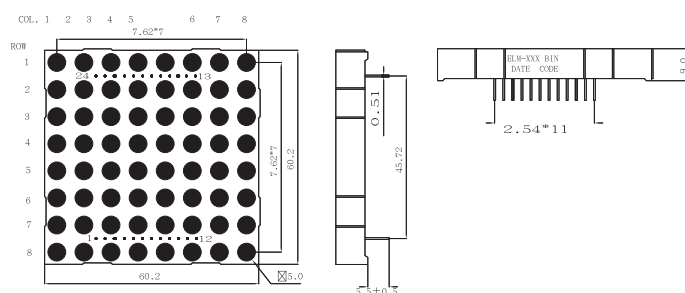


Product	Segment Height mm (inch)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
SF512SURWA/S530-A3/S290	14.22 (0.5)	● Brilliant Red	8.1	CA	624	White	Gray	11 / 27.8
SF512SYGWA/S530-E2/S290	14.22 (0.5)	● Brilliant Yellow Green	8.1	CA	573	White	Gray	4 / 10.8

LED Digital Displays | Dot Matrix Display



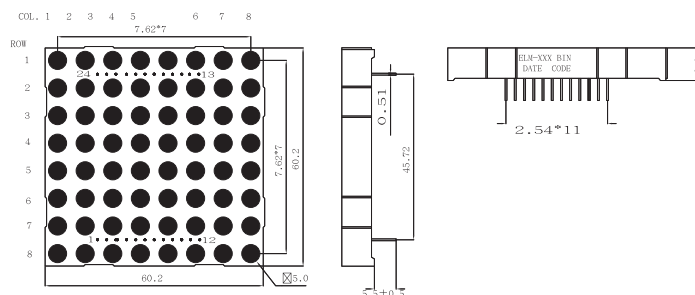
UNIT : mm



Product	Size (LxWmm)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
M2881SURWA/S530-A3	60.2x60.2	● Brilliant Red	--	CC	624	White	Gray	7.8 / 21
M2881SYGWA/S530-E2	60.2x60.2	● Brilliant Yellow Green	--	CC	573	White	Gray	7.8 / 17.6
M2881UYWA/S530-A3	60.2x60.2	● Brilliant Yellow	--	CC	589	White	Gray	11 / 17.6

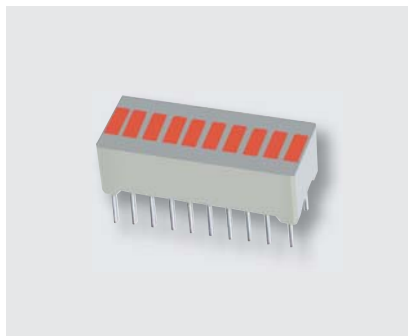


UNIT : mm

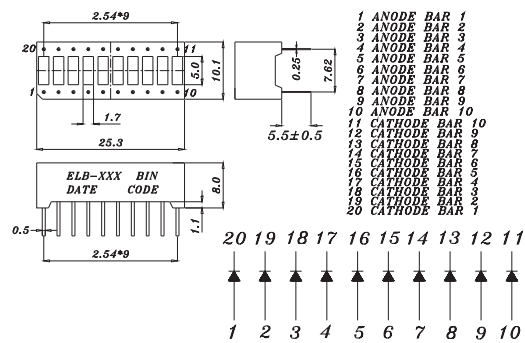


Product	Size (LxWmm)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
M2882SYGWA/S530-E2	60.2x60.2	● Brilliant Yellow Green	--	CA	573	White	Gray	7.8 / 17.6

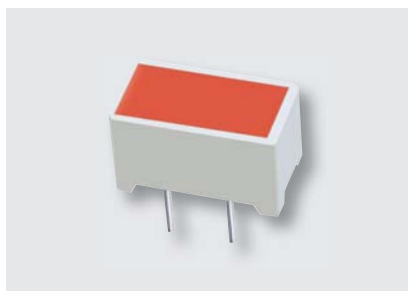
LED Digital Displays ■ Light Bar Display



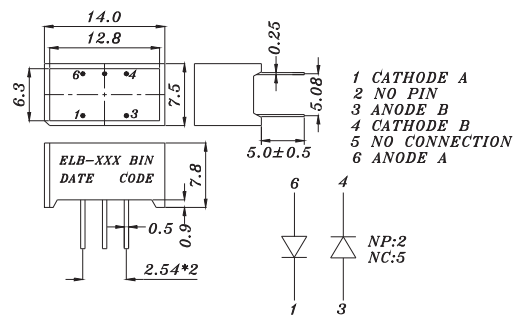
UNIT : mm



Product	Size (LxWmm)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
B1001SDRWB/S530-A3	25.3x10.1	● Deep Red	--	CC	639	White	Black	4 / 8.9
B1001SURWB/S530-A3	25.3x10.1	● Brilliant Red	--	CC	624	White	Black	5.6 / 12.5
B1001USOWA/S530-A4	25.3x10.1	● Reddish Orange	--	CC	615	White	Gray	7.8 / 7.6
B1001SYGWA/S530-E2	25.3x10.1	● Brilliant Yellow Green	--	CC	573	White	Gray	2.8 / 4.5



UNIT : mm

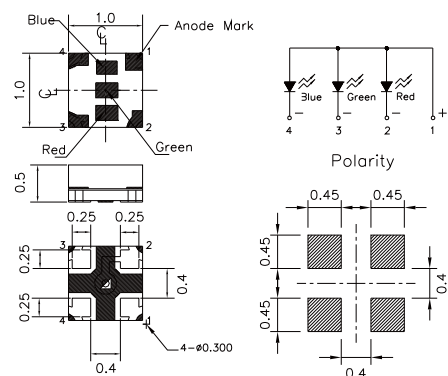


Product	Size (LxWmm)	Color	Segment Width	CC/CA	λ_d (nm)	Resin Color	Face Color	I_v (Min/Typ) (mcd)
B1010SURD/S530-A3	14x7.5	● Brilliant Red	--	CA	624	Red	Red	11 / 24
B1010SYGD/S530-E2	14x7.5	● Brilliant Yellow Green	--	CA	573	Red	Red	2.8 / 4.5

Signage LED ■ Surface Mount Chip LED (PCB)



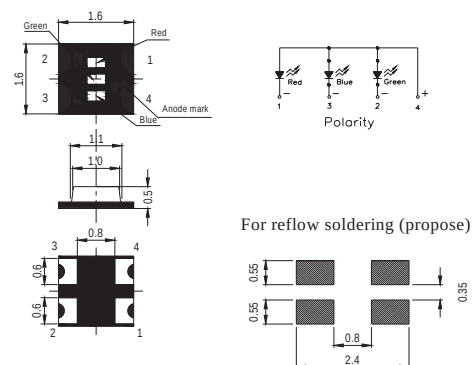
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
18-038/RSGHBHC1-S03/2T	1x1x0.5 (4-pin)	Red	619~631	130	2.0	2.4	20	120
		Green	519~531	276	3.3	3.7		
		Blue	462~475	84	3.3	3.7		



UNIT : mm

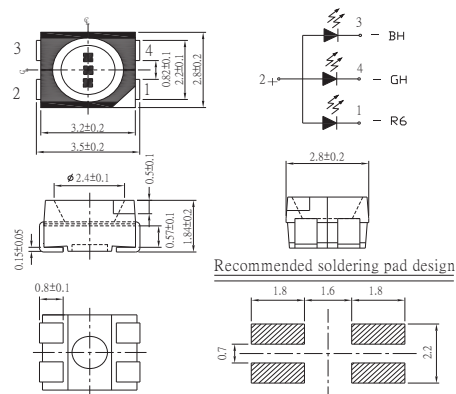


Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
19-037A/RSGHBHW1-S02/2T	1.6x1.6x0.5 (4-pin)	Red	618~630	130	2.0	2.4	20	120
		Green	521.5~531.5	324	3.3	3.7		
		Blue	464~474	100	3.3	3.7		

Signage LED ■ Surface Mount PLCC LED (Reflector)



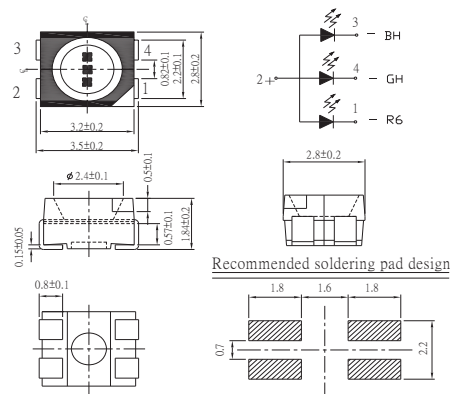
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
67-03A/R6GHBHW-A01/2T/MS	3.5x2.8x1.8	Red	620.5~627.5	220	2.0	2.5	20	120
		Green	517~532	1000	3.2	3.7		
		Blue	464.5~474.5	220	3.2	3.7		



UNIT : mm

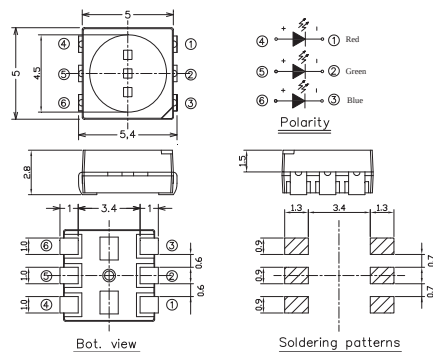


Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
67-B23A/R6GHB7W-S01/2T/MS	3.5x2.8x1.8	Red	620.5~627.5	300	2.0	2.5	20	120
		Green	515~530	500	3.2	3.7		
		Blue	465~475	160	3.2	3.7		

• **Product Availability :** Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.



UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
HN0507	5x5x2.8	Red	619~628	620	2.0	2.5	20	120
		Green	526~534	1630	3.2	3.7		
		Blue	465~473	435	3.2	3.7		

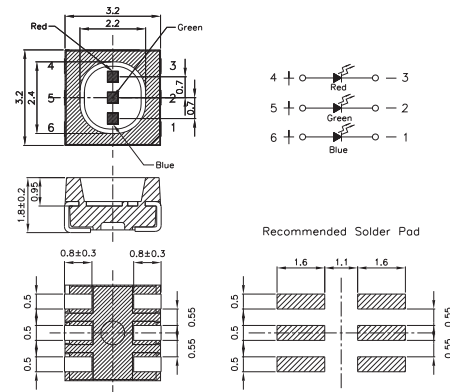
• **Product Availability :** Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Signage LED | Surface Mount PLCC LED (Reflector)

PRELIMINARY



UNIT : mm

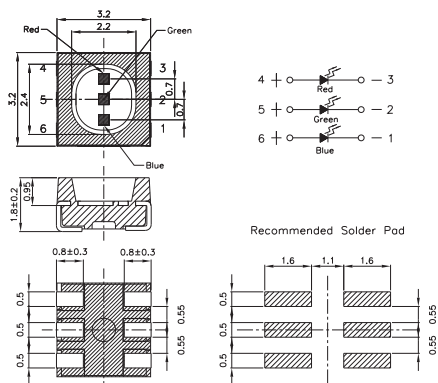


Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
HNB325	3.2x3.2x1.8	Red	620.5~627	330	2.0	2.5	20	120
		Green	524.5~533	730	3.2	3.7		
		Blue	465.5~473	170	3.2	3.7		

• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.



UNIT : mm

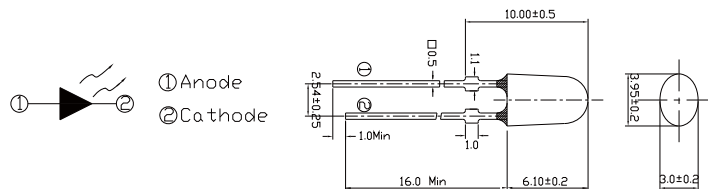


Product	Size (LxWxHmm)	Color	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
					Typ.	Max.		
HN0325	3.2x3.2x1.8	Red	620~629	625	2.0	2.5	20	120
		Green	520~530	1530	3.2	3.7		
		Blue	463.5~473.5	337	3.2	3.7		

Signage LED ■ Lamp Type LED ■ 3mm Oval Type

PRELIMINARY

UNIT : mm



Product	Size (LxWxHmm)	Color	Lens Type	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
						Typ.	Max.		
3474AHRR/MS	3.95x3x6.1	Red	Oval	620~629	1400	2.0	2.6	20	110 / 50
3474AHGR/MS	3.95x3x6.1	Green	Oval	525~534	4000	3.2	3.6	20	110 / 50
3474AHBR/MS	3.95x3x6.1	Blue	Oval	465~474	720	3.2	3.6	20	110 / 50
3474FHRR/MS	3.95x3x6.1	Red	Oval	620~629	1200	2.0	2.6	20	110 / 50
3474FHGR/MS	3.95x3x6.1	Green	Oval	525~534	2880	3.2	3.6	20	110 / 50
3474FHBR/MS	3.95x3x6.1	Blue	Oval	460~478	500	3.2	3.6	20	110 / 50

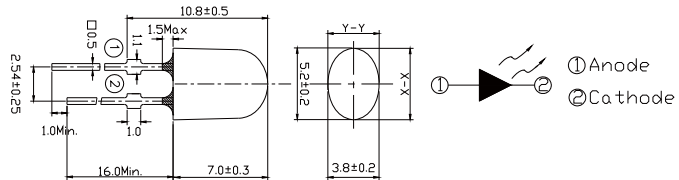
• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Signage LED | Lamp Type LED | 5mm Oval Type



UNIT : mm

(With Stopper)

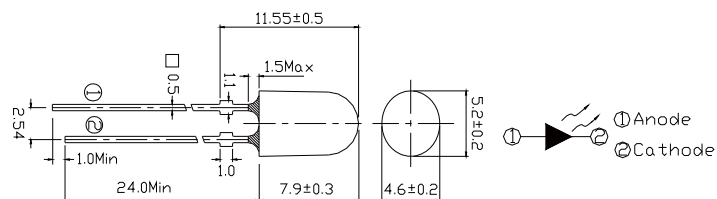


Product	Size (LxWxHmm)	Color	Lens Type	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
						Typ.	Max.		
5484BN/R7DC-AGJB/P/MS	5.2x3.8x7	Red	Oval	619~628	1220	2.2	2.4	20	110 / 40
5484BN/R7DC-AHJB/P/MS	5.2x3.8x7	Red	Oval	619~628	1500	2.2	2.4	20	110 / 40
5484BN/GADC-ALMA/P/MS	5.2x3.8x7	Green	Oval	525~535	2880	3.2	3.6	20	110 / 40
5484BN/GADC-AMNA/P/MS	5.2x3.8x7	Green	Oval	525~535	3800	3.2	3.6	20	110 / 40
5484BN/BADC-AFHA/P/MS	5.2x3.8x7	Blue	Oval	465~475	720	3.2	3.6	20	110 / 40
5484BN/BADC-AGJA/P/MS	5.2x3.8x7	Blue	Oval	465~475	1030	3.2	3.6	20	110 / 40



UNIT : mm

(With Stopper)



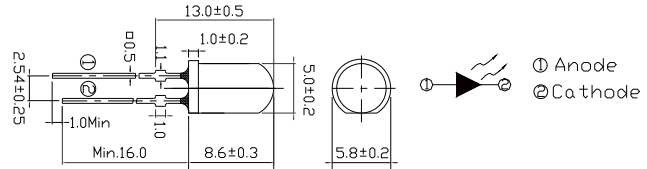
Product	Size (LxWxHmm)	Color	Lens Type	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
						Typ.	Max.		
6364/GADA-ANQA/P/MS	5.2x4.6x7.9	Green	Oval	525~535	3000	3.2	3.6	20	70 / 40
6364/GADA-AQSA/P/MS	5.2x4.6x7.9	Green	Oval	525~535	4140	3.2	3.6	20	70 / 40
6364/BADA-AHKA/P/MS	5.2x4.6x7.9	Blue	Oval	465~475	1000	3.2	3.6	20	70 / 40
6364/BADA-AKMA/P/MS	5.2x4.6x7.9	Blue	Oval	465~475	2250	3.2	3.6	20	70 / 40
6374/R7DA-AJKB/P/MS	5.2x4.6x7.9	Red	Oval	619~628	2240	2.0	2.6	20	65 / 40
6374/R7DA-AKMB/P/MS	5.2x4.6x7.9	Red	Oval	619~628	1425	2.0	2.6	20	65 / 40
6374/Y7DA-AJKB/P/MS	5.2x4.6x7.9	Yellow	Oval	586~594	2240	2.0	2.6	20	65 / 40
6374/Y7DA-ALNB/P/MS	5.2x4.6x7.9	Yellow	Oval	586~594	2000	2.0	2.6	20	65 / 40

Signage LED | Lamp Type LED | 5mm Round Type



UNIT : mm

(With Stopper)

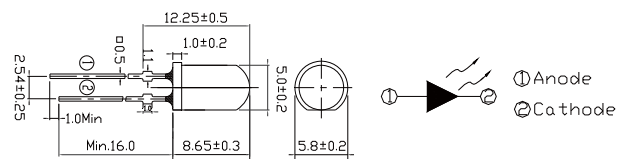


Product	Size (LxWxHmm)	Color	Lens Type	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
						Typ.	Max.		
333/R7C1-AUWB/P/MS	5x5x8.6	Red	Clear	619~628	11250	2.0	2.6	20	10
333/Y7C1-ATWB/P/MS	5x5x8.6	Yellow	Clear	586~594	11250	2.0	2.6	20	15
333/G1C1-AWYA/MS	5x5x8.6	Green	Clear	525~535	18000	3.2	3.6	20	15
333/B1C1-ARUA/MS	5x5x8.6	Blue	Clear	465~475	7150	3.2	3.6	20	15



UNIT : mm

(With Stopper)

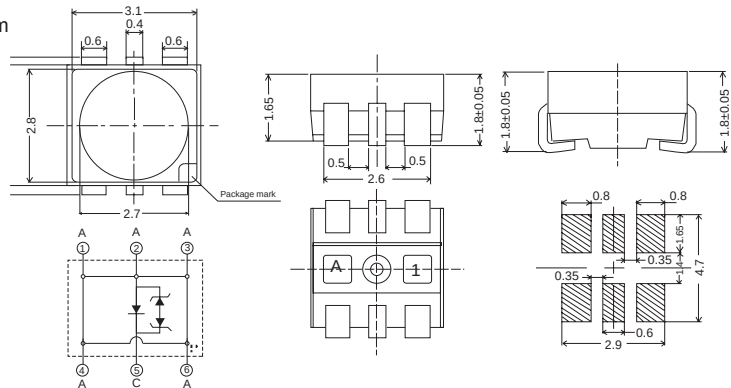


Product	Size (LxWxHmm)	Color	Lens Type	λ_d (nm)	Typ. I_v (mcd)	V_F (V)		I_F (mA)	Viewing Angle (°)
						Typ.	Max.		
7383/R7C3-AQSB/P/MS	5x5x8.7	Red	Clear	619~628	4000	2.0	2.6	20	30
7383/R7C3-ARUB/P/MS	5x5x8.7	Red	Clear	619~628	7150	2.0	2.6	20	30
7383/Y7C3-AQSB/P/MS	5x5x8.7	Yellow	Clear	586~594	4500	2.0	2.6	20	30
7383/Y7C3-ARUB/P/MS	5x5x8.7	Yellow	Clear	586~594	7150	2.0	2.6	20	30
7383/G1C3-ATVA/P/MS	5x5x8.7	Green	Clear	525~535	9000	3.2	3.6	20	30
7383/V7C3-ARTA/P/MS	5x5x8.7	Green	Clear	505	6300	3.2	3.6	20	30
7383/BAC3-ANQA/P/MS	5x5x8.7	Blue	Clear	465~475	3600	3.2	3.6	20	30
7343/R7D5-AHKB/P/MS	5x5x8.7	Red	Diffused	619~628	900	2.2	2.6	20	55
7343/GAD5-ANQA/P/MS	5x5x8.7	Green	Diffused	525~535	2850	3.2	3.6	20	50
7343/BAD5-AGJA/P/MS	5x5x8.7	Blue	Diffused	465~475	715	3.2	3.6	20	50
7343/R7C2-AQSB/P/MS	5x5x8.7	Red	Clear	619~628	4500	2.0	2.6	20	25
7343/Y7C2-AQSB/P/MS	5x5x8.7	Yellow	Clear	586~594	4500	2.0	2.6	20	25
7344/V7C2-ASVA/P/MS	5x5x8.7	Green	Clear	505	9000	3.2	3.6	20	23

Automotive LED ■ High Power LED



UNIT : mm

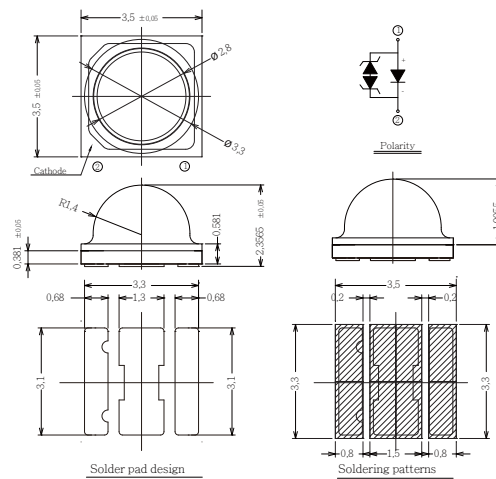


0.5W

Product	Size (LxWxHmm)	Color	λ_d (nm)/ CCT(K)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
EHP-A09K-S5TC-1F000CBDBE1K-1T8-AM	3.4x3.3x1.75	● Red	624	3550	7100	1.7	3.2	150	120
EHP-A09K-Y8TC-G6000CADA1K-1T8-AM	3.4x3.3x1.76	● Yellow	588	2800	5600	1.7	3.2	150	120
EHP-A09K-BRTT-5670HEAFAD9K-1T8-AM	3.4x3.3x1.77	○ White	5600~7000	7100	14000	1.7	3.2	150	120



UNIT : mm



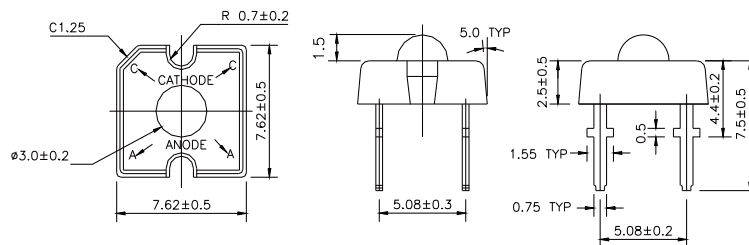
1W / 350mA

Product	Size (LxWxHmm)	Color	λ_d (nm)/ CCT(K)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
ELSWD-ABCDE-FGHIJ-V1234	3.5x3.5x2.35	○ Cool White	5700	100	120	2.95	3.55	350	120

Automotive LED ■ Super Flux LED ■ 3 mm

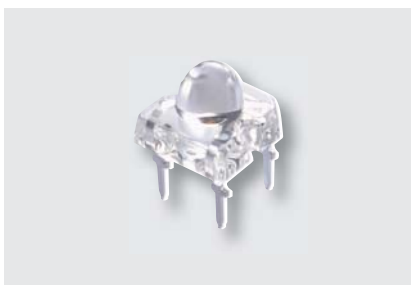


UNIT : mm

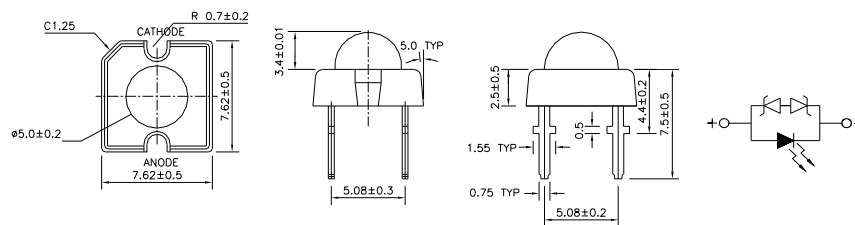


Product	Size (LxWxHmm)	Color	I _v (mIm)	Wavelength (nm)	V _F (V)	Viewing Angle (°)
30-01-B84-RFC-D4T1U1DH-AM	7.62x7.62x9	● Red	7150~14250	620~632	1.9~2.9	85
30-01-B84-YSC-A1T1U1DH-AM	7.62x7.62x9	● Yellow	7150~14250	587~596	1.9~2.9	85
30-01-B74-S3NC-C6T1U1DH-AM	7.62x7.62x9	● Orange	7150~14250	611~620	1.9~2.9	80
30-01/B4C-AKNB	7.62x7.62x9	● Blue	1125~2850	464~476	2.8~3.8	80
30-01/G4C-ARTB	7.62x7.62x9	● Green	4500~9000	520~532	3.0~4.0	80
31-01-B14-S3NC-C6T1U1DH-AM	7.62x7.62x9	● Orange	7150~14250	611~620	1.9~2.9	50
31-01/T4C-4PRB	7.62x7.62x9	○ White	2850~5650	x=0.30, y=0.29	2.8~3.8	45
31-01/B4C-AKNB	7.62x7.62x9	● Blue	1125~2850	464~476	2.8~3.8	50
33-01-C44-RRFC-D1T1U1CH-AM	7.62x7.62x9	● Red	7150~14250	620~628	1.9~2.9	110
33-01-C34-YYSC-A5T1U1CH-AM	7.62x7.62x9	● Yellow	7150~14250	590~598	1.9~2.9	105
33-01/G4C- ARTB	7.62x7.62x9	● Green	4500~9000	520~532	3.0~4.0	90
33-01/B4C-AHKB	7.62x7.62x9	● Blue	715~1425	464~472	2.8~4.0	80
38-01-A84-S3NC-C1S2T2CH-AM	7.62x7.62x9	● Orange	5650~11250	610~620	1.9~2.9	40
38-01-A84-RAC-D4T1U1DH-AM	7.62x7.62x9	● Red	7150~14250	620~632	1.9~2.9	40
38-01-A74-YSC-A2T1U1DH-AM	7.62x7.62x9	● Yellow	7150~14250	586~594	1.9~2.9	35

Automotive LED ■ Super Flux LED ■ 5 mm



UNIT : mm

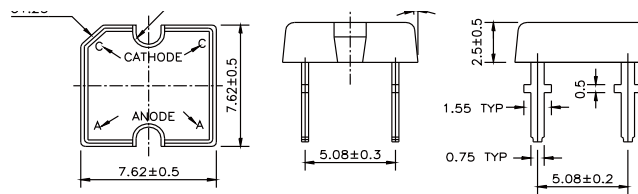


Product	Size (LxWxHmm)	Color	L _v (mlm)	Wavelength (nm)	V _F (V)	Viewing Angle (°)
35-01/T4C-4PRB	7.62x7.62x9	○ White	2850~5650	x=0.30, y=0.29	3.0~4.0	25
35-01/B4C-AKNB	7.62x7.62x9	● Blue	1125~2850	464~476	2.8~3.8	25

Automotive LED | Super Flux LED | Flat



UNIT : mm

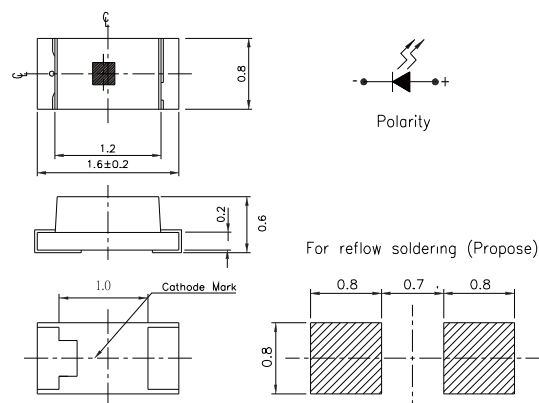


Product	Size (LxWxHmm)	Color	I_V (lm)	Wavelength (nm)	V_F (V)	Viewing Angle (°)
10-01-C84-YSC-AAS2T2DH-AM	7.62x7.62x7.5	● Yellow	5650~11250	589~598	1.9~2.9	130
32-01/B4C-AJMB	7.62x7.62x7.5	● Blue	900~2250	464~476	2.8~3.8	130
32-01/T4C-4PRB	7.62x7.62x7.5	○ White	2850~5650	x=0.30, y=0.29	2.8~3.8	130

Automotive LED | Surface Mount Chip LED (PCB) | Top View 0603



UNIT : mm

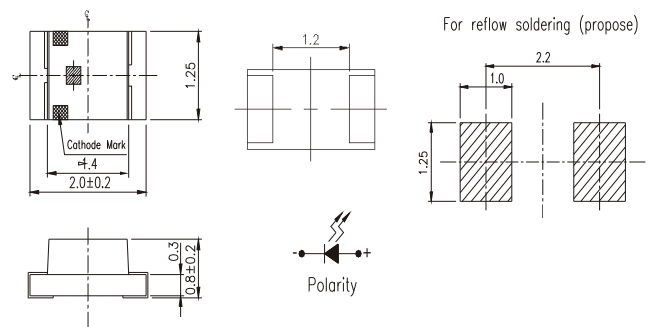


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_V Min. (mcd)	I_V Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
19-213-R7C-A0R1S2B0C-3T-AM	1.6x0.8x0.6	● Dark Red	630	112	280	1.75	2.35	10	130
19-213-GPC-R7L2M2L0E-3T-AM	1.6x0.8x0.6	● Pale Green	560	14	28	1.7	2.3	20	130
19-213-Y2SC-9AS1T1B0E-3T-AM	1.6x0.8x0.6	● Brilliant Yellow	592	180	355	1.75	2.35	20	130

Automotive LED | Surface Mount Chip LED (PCB) | Top View 0805



UNIT : mm

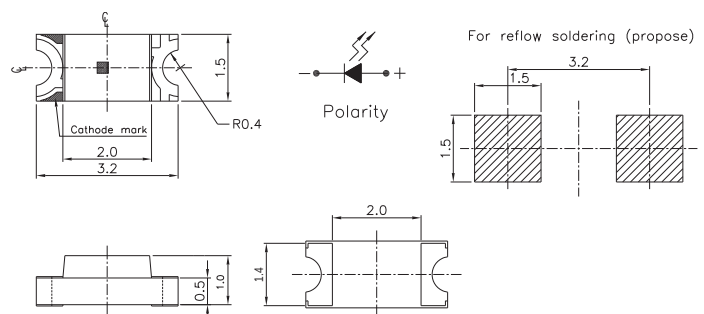


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
17-215B-R6SC-A0R1S2B0E-3T-AM	2x1.25x0.8	● Brilliant Red	625	112	280	1.75	2.35	20	130
17-215-GPC-R7K2N1L0E-3T-AM	2x1.25x0.8	● Pale Green	560	9	35.5	1.7	2.3	20	130
17-215-Y2C-P9Q2S1B0E-3T-AM	2x1.25x0.8	● Brilliant Yellow	590	90	224	1.75	2.35	20	130

Automotive LED | Surface Mount Chip LED (PCB) | Top View 1206



UNIT : mm

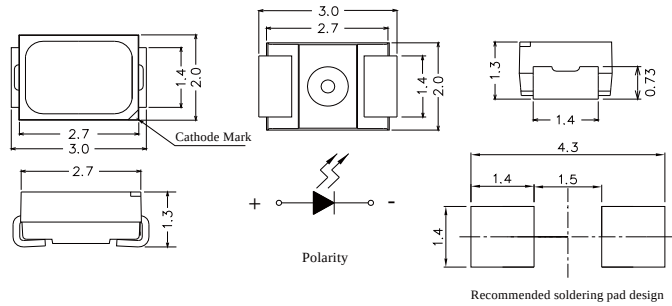


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
15-21-R6C-F0Q1R1B0E-2T-AM	3.2x1.5x1	● Brilliant Red	626	71	140	1.75	2.35	20	130
15-21-GPC-R7L2M2B0D-2T-AM	3.2x1.5x1	● Pale Green	561	14	28	1.75	2.35	15	130
15-21-Y2C-H0Q2R2B0E-2T-AM	3.2x1.5x1	● Brilliant Yellow	591	90	180	1.75	2.35	20	130

Automotive LED | Surface Mount PLCC LED (Reflector) | Top View PLCC2



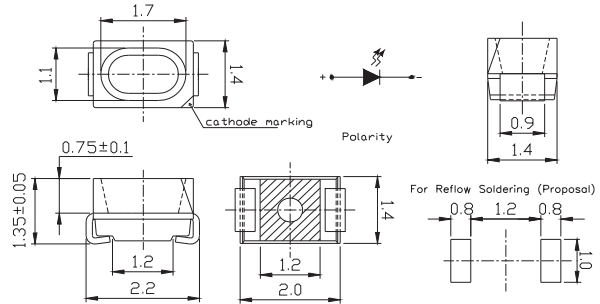
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min. (mcd)	I_V Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
45-11-BNT-DCCACBA4F-2T8-AM	3x2x1.3	○ White	x=0.2818, y=0.2715	2800	4500	2.6	3.7	30	120
45-11-BFP-9GABBBA6F-2T8-AM	3x2x1.3	○ Ice Blue	x=0.15, y=0.16	1400	2800	2.75	3.95	30	120



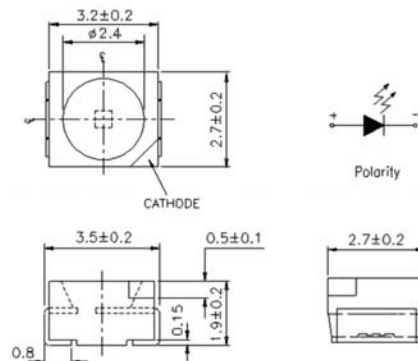
UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min. (mcd)	I_V Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
65-21-R7C-A6Q2S1B0E-2T8-AM	1.7x1.4x1.35	● Dark Red	633	90	224	1.75	2.35	20	120
65-11-GBC-Y0V1AAN0E-2T8-AM	1.7x1.4x1.35	● Brilliant Green	527	710	1400	2.7	3.7	30	120
65-11-BHC-K9R2S2A7E-2T8-AM	1.7x1.4x1.35	● Blue	470	140	280	2.7	3.8	30	120
65-21-Y2SC-L6R2S1B0E-2T8-AM	1.7x1.4x1.35	● Brilliant Yellow	587	140	224	1.75	2.35	20	120
65-11-BHT-U1T2U2A9E-2T8-AM	1.7x1.4x1.35	○ White	x=0.32, y=0.32	355	710	2.5	3.5	30	120
65-11-BLP-1CS1T2A7C-2T8-AM	1.7x1.4x1.35	○ Ice Blue	x=0.2, y=0.23	180	450	2.7	3.8	10	120



UNIT : mm

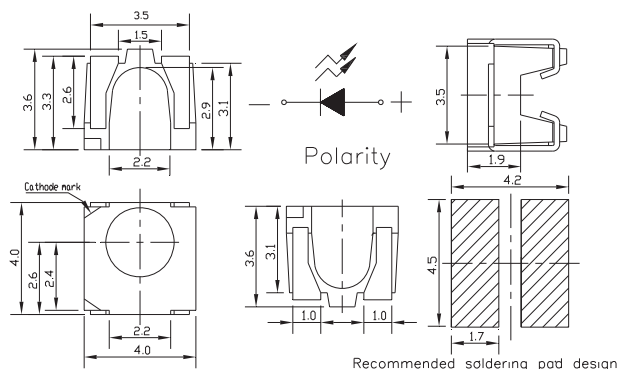


Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_V Min. (mcd)	I_V Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
67-11-RANC-Q6U1U2C1E-2T8-AM	3.1x2.7x1.9	● Super Red	633	90	224	1.75	2.35	20	120
67-11-GHC-Y0U1V2A6E-2T8-AM	3.1x2.7x1.9	● Brilliant Green	527	710	1400	2.7	3.7	30	120
67-11-B7C-B0S1T2E0E-2T8-AM	3.1x2.7x1.9	● Blue	470	140	280	2.7	3.8	30	120
67-11-Y9NC-Y7U1U2C1E-2T8-AM	3.1x2.7x1.9	● Brilliant Yellow	587	140	224	1.75	2.35	20	120
67-11-BFT-U1ABBAC2E-2T8-AM	3.1x2.7x1.9	○ White	x=0.32, y=0.32	355	710	2.5	3.5	30	120
67-11-BVP-Z9V1ABA7E-2T8-AM	3.1x2.7x1.9	○ Ice Blue	x=0.2, y=0.23	180	450	2.7	3.8	10	120

Automotive LED ■ Surface Mount PLCC LED (Reflector) ■ Side View PLCC2



UNIT : mm

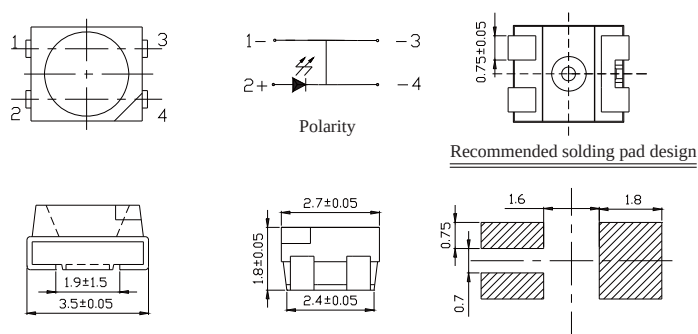


Product	Size (LxWxHmm)	Color	λ_d (nm)/ CIE(x,y)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
57-21-RAC-A6V1W2A5F-BT8-AM	4x4x3.6	● Dark Red	633	715	1800	1.8	2.4	30	120
57-11-GHC-R1U2V1A7E-BT8-AM	4x4x3.6	● Brilliant Green	526	560	900	2.7	3.8	20	120
57-21-B1C-A1J1K2A1C-BT8-AM	4x4x3.6	● Blue	465	4.5	11.2	2.9	4.4	10	120
57-21-Y2SC-A0S1T1B0E-BT8-AM	4x4x3.6	● Brilliant Yellow	590	180	355	1.75	2.35	20	120
57-11-BVT-U9AAABE0E-BT8-AM	4x4x3.6	○ White	x=0.33, y=0.35	1120	1800	2.75	3.65	20	120
57-21-B5P-A9V1ABBHE-BT8-AM	4x4x3.6	○ Ice Blue	x=0.2, y=0.29	710	1800	2.55	3.95	20	120

Automotive LED ■ Surface Mount PLCC LED (Reflector) ■ Side View PLCC3



UNIT : mm



Product	Size (LxWxHmm)	Color	λ_d (nm)/CIE(x,y)	I_v Min. (mcd)	I_v Max. (mcd)	V_F Min. (V)	V_F Max. (V)	I_F (mA)	Viewing Angle (°)
67-31A-R2NC-V2V2ABC1G-2T8-AM	3.5x2.7x1.9	● Deep Red	632	900	1800	1.7	2.6	70	120
67-31E-GPSC-U8P2R1B7G-2T8-AM	3.5x2.7x1.9	● Pale Green	564	56	140	1.7	2.4	50	120
67-31AZ-B7C-D0T2V1M0F-2T8-AM	3.5x2.7x1.9	● Blue	469	355	900	2.75	3.95	30	120
67-31E-YSNC-4PABBBC1G-2T8-AM	3.5x2.7x1.9	● Brilliant Yellow	589	1400	2800	1.7	2.6	70	120
67-31AZ-BNT-M0CADAA6F-2T8-AM	3.5x2.7x1.9	○ White	x=0.285, y=0.281	2800	5600	2.6	3.8	30	120
67-31A-BVP-DABBCAG2G-2T8-AM	3.5x2.7x1.9	○ Ice Blue	x=0.188, y=0.227	2240	3550	2.9	3.6	50	120

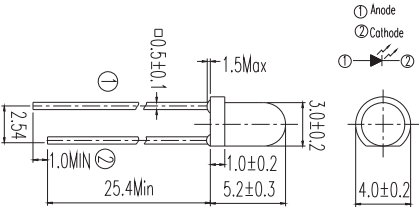
INFRARED LED, SENSORS, COUPLERS

150	INFRARED LED AND SILICON DETECTOR
176	INFRARED RECEIVER MODULE
190	OPTIC-FIBER DEVICE (PHOTO LINK)
198	OPTICAL SENSOR
216	PHOTO COUPLER

Infrared LED and Silicon Detector | Emitter | Lamp 3mm



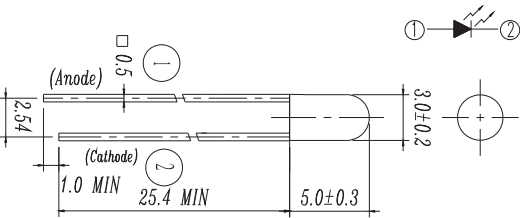
UNIT : mm



Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR204	3	850	1.45	1.65	7.8	17.6	25
HIR204/H0	3	850	1.45	1.65	4	8.9	40
HIR204C	3	850	1.45	1.65	7.8	17.6	25
HIR204C/H0	3	850	1.45	1.65	4	8.9	40
IR204-A	3	940	1.2	1.5	4	5.6	35
IR204/H16/L10	3	940	1.2	1.5	2.8	4	50
IR204/H60	3	940	1.2	1.5	4	7	50
IR204C-A	3	940	1.2	1.5	4	5.6	35
IR204C/H16/L10	3	940	1.2	1.5	2.8	4	50
SIR204-A	3	875	1.3	1.6	4	6.4	30
SIR204C	3	875	1.3	1.6	4	6.4	30

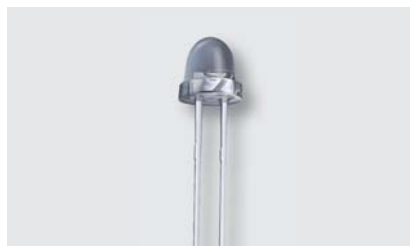


UNIT : mm

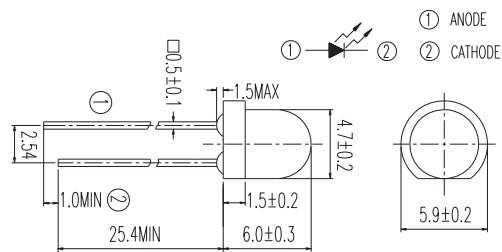


Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
SIR234	3	875	1.3	1.6	5.6	9.3	30
HIR234C	3	850	1.45	1.65	7.8	15	30

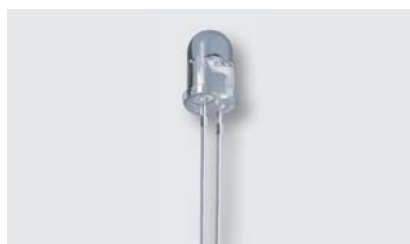
Infrared LED and Silicon Detector | Emitter | Lamp 5mm



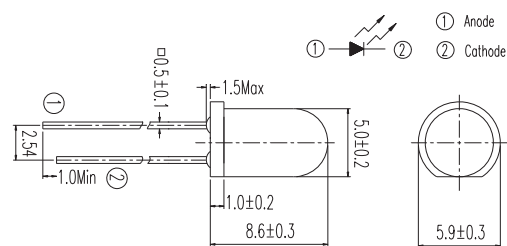
UNIT : mm



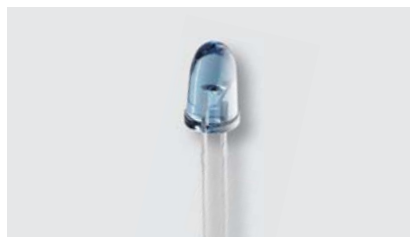
Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR323C	5	850	1.45	1.65	15	30	25
HIR323C/H0	5	850	1.45	1.65	7.8	11	30
IR323	5	940	1.2	1.5	4	6.4	30
IR323/H0-A	5	940	1.2	1.5	2	3.5	60
SIR323-5	5	875	1.3	1.6	4	7.8	35



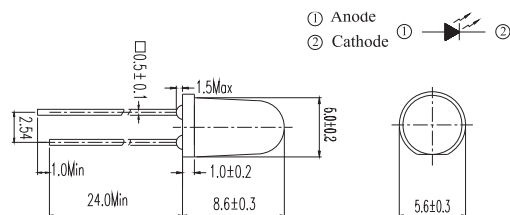
UNIT : mm



Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR333/H0	5	850	1.45	1.65	7.8	15	30
HIR333C/H0	5	850	1.45	1.65	7.8	15	30
IR333-A	5	940	1.2	1.5	7.8	20	20
IR333/H0	5	940	1.2	1.5	5.6	7.8	40
IR333/H0/L10	5	940	1.2	1.5	11	12	40
IR333C	5	940	1.2	1.5	7.8	15	20
IR333C/H0/L10	5	940	1.2	1.5	5.6	7.8	40
IR333C/H2	5	940	1.2	1.5	7.8	15	30
SIR333-A	5	875	1.3	1.6	7.8	20	20



UNIT : mm

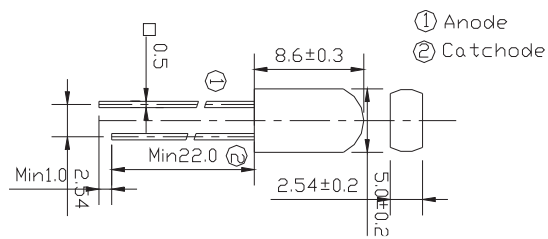


Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR383	5	940	1.2	1.5	7.8	20	20
SIR383C	5	875	1.3	1.6	11	20	20
HIR383C/L289	5	850	1.45	1.65	--	140	18

Infrared LED and Silicon Detector | Emitter | Lamp 5mm



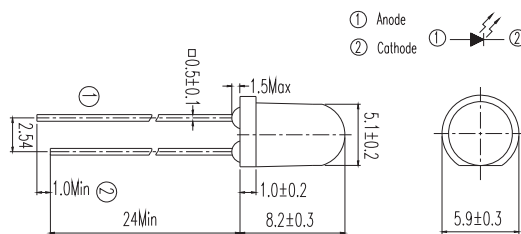
UNIT : mm



Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR533C	5	940	1.2	1.5	4	7.8	25



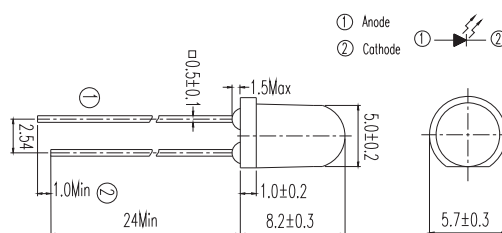
UNIT : mm



Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR7373B/L289	5	850	1.45	1.6	21	40	25
HIR7373C	5	850	1.45	1.65	7.8	15	40
IR7373C	5	940	1.2	1.5	5.6	8	50



UNIT : mm

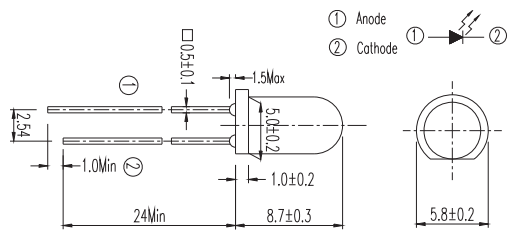


Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR7393B/L289	5	850	1.45	1.6	7.8	20	50
HIR7393C	5	850	1.45	1.65	7.8	15	50
IR7393C	5	940	1.2	1.5	4	6.5	60

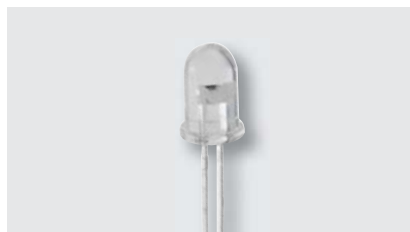
Infrared LED and Silicon Detector ■ Emitter ■ Lamp 5mm



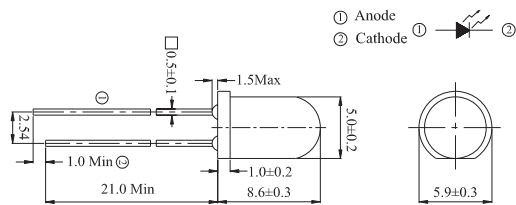
UNIT : mm



Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR8323/C16	5	850	1.45	1.65	20	30	30



UNIT : mm

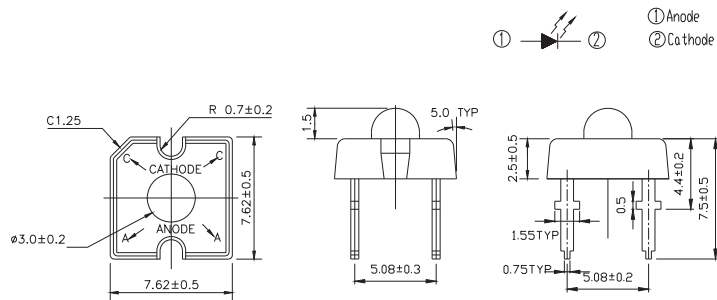


Product	Size (mm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR8353-14C	5	940	1.2	1.3	7.8	11	35

Infrared LED and Silicon Detector ■ Emitter ■ Piranha



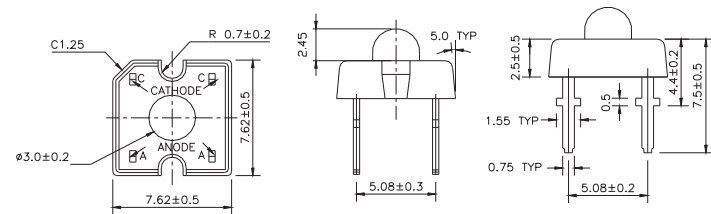
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR30-01C/S16	7.62x7.62x4	850	1.45	1.65	5.6	1	35



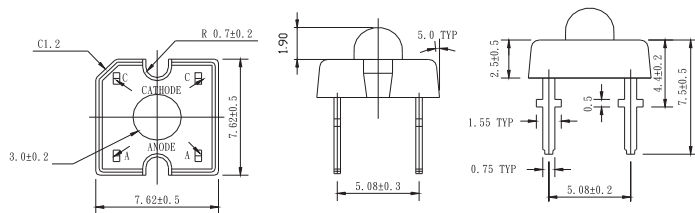
UNIT : mm



Product	Size (LxWxHmm)	λ _p (nm)	V _F Typ (V)	V _F Max (V)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)	Viewing Angle (°)
HIR36-01C/S32	7.62x7.62x5	850	1.45	1.65	15	29	20



UNIT : mm

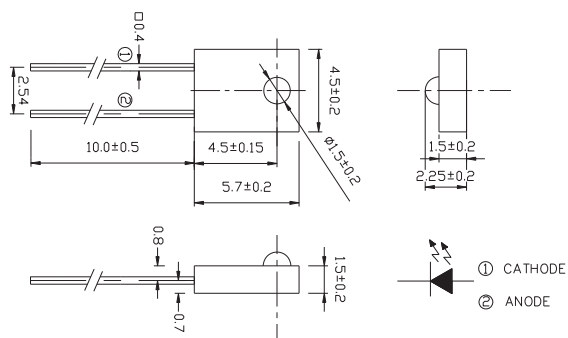


Product	Size (LxWxHmm)	λ _P (nm)	V _F Typ (V)	V _F Max (V)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)	Viewing Angle (°)
HIR38-01C	7.62x7.62x4.4	850	1.45	1.65	7.8	17	30

Infrared LED and Silicon Detector ■ Emitter ■ Side Look



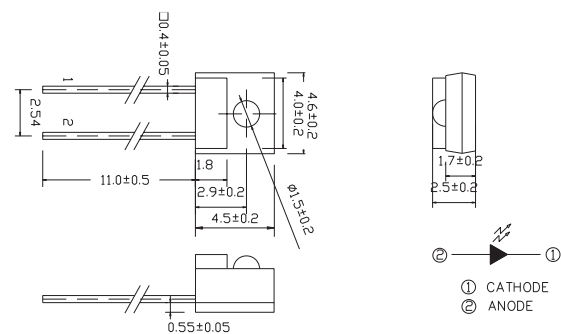
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR908-7C-F	4.5x2.25x5.7	940	1.2	1.5	--	--	60



UNIT : mm

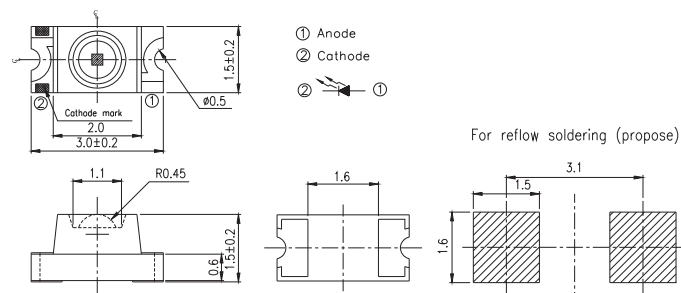


Product	Size (LxWxHmm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
HIR928-6C-F	4.6x2.5x4.5	850	1.45	1.65	--	--	25
SIR928-6C-F	4.6x2.5x4.5	875	1.3	1.6	--	--	40
IR928-6C-F	4.6x2.5x4.5	940	1.2	1.5	--	--	40

Infrared LED and Silicon Detector | Emitter | SMD



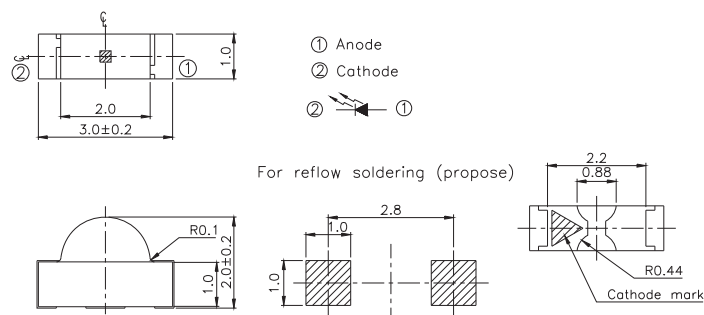
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR11-21C/L11/TR8	3x1.5x1.5	850	1.45	1.65	1	2	75
IR11-21C/TR8	3x1.5x1.5	940	1.2	1.5	0.5	1.6	100
IR11-21C/L302/TR8	3x1.5x1.5	940	1.2	1.5	1.25	2.25	100



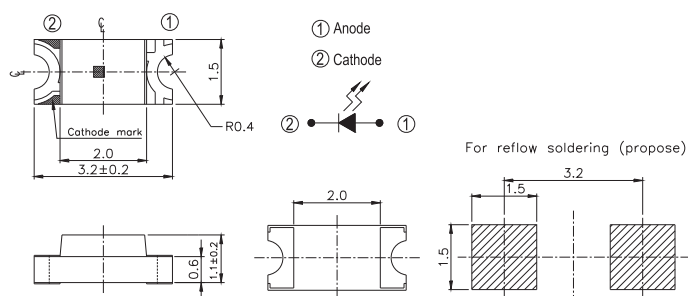
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR12-21C/TR8	3x1x2	940	1.2	1.5	0.5	0.8	160
SIR12-21C/TR8	3x1x2	875	1.3	1.6	0.5	0.9	160
HIR12-21C/TR8	3x1x2	850	1.45	1.65	0.7	1.3	145



UNIT : mm

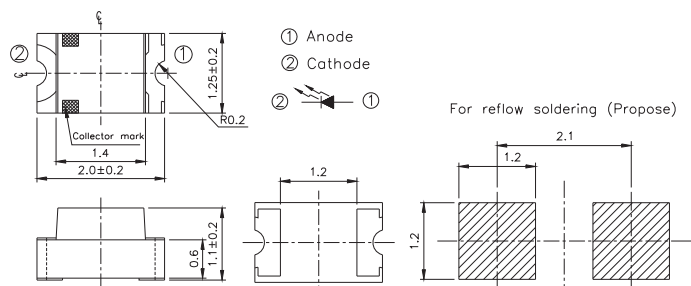


Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR15-21C/TR8	3.2x1.5x1.1	940	1.2	1.5	0.2	0.8	160

Infrared LED and Silicon Detector I Emitter I SMD



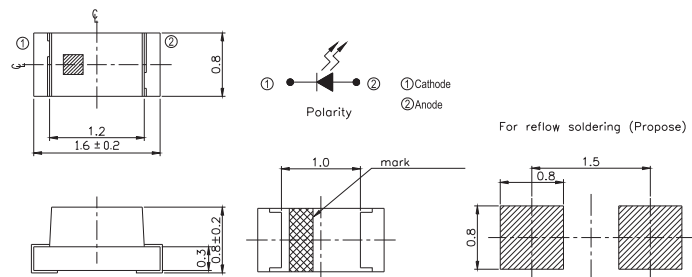
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR17-21C/TR8	2x1.25x1.1	940	1.2	1.5	0.2	0.8	120
HIR17-21C/L289/TR8	2x1.25x1.1	850	1.4	1.7	1.6	2.1	120



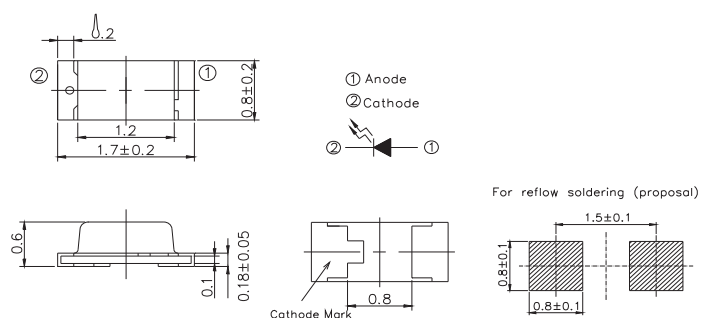
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR19-21C/TR8	1.6x0.8x0.8	940	1.2	1.5	0.2	0.7	150
SIR19-21C/TR8	1.6x0.8x0.8	875	1.3	1.6	0.2	0.5	145
HIR19-21C/L289/TR8	1.6x0.8x0.8	850	1.4	1.7	1.0	1.85	145



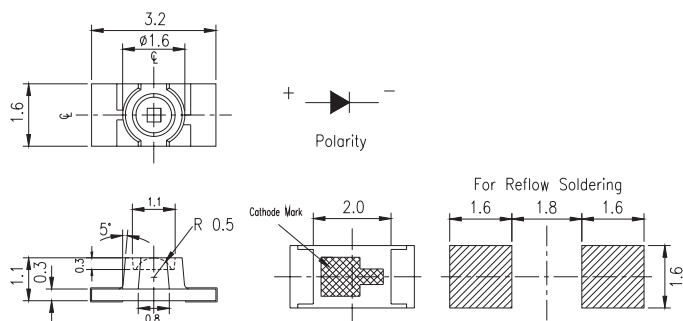
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR19-315C/TR8	1.7x0.8x0.6	940	1.2	1.5	0.2	0.6	140
SIR19-315C/TR8	1.7x0.8x0.6	870	1.35	1.7	1	1.3	140

Infrared LED and Silicon Detector ■ Emitter ■ SMD

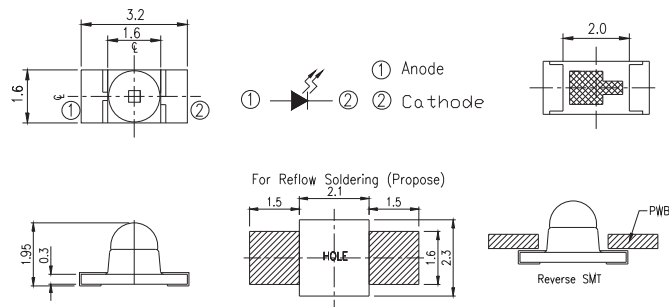
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	V _F Typ (V)	V _F Max (V)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)	Viewing Angle (°)
IR25-21C/TR8	3.2x1.6x1.1	940	1.2	1.5	0.5	1.5	160
HIR25-21C/L423/TR8	3.2x1.6x1.1	850	1.45	1.65	3.0	5.5	70

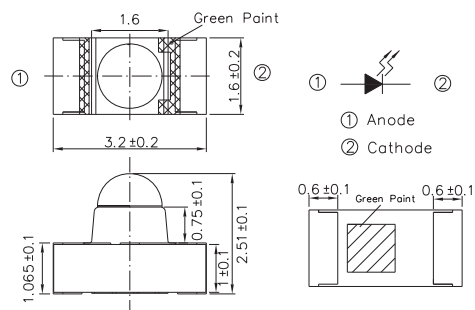


UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	V _F Typ (V)	V _F Max (V)	I _e _Min (mW/sr)	I _e _Typ (mW/sr)	Viewing Angle (°)
IR26-21C/L110/TR8	3.2x1.6x1.95	940	1.2	1.5	1	3.5	20
HIR26-21B/L423/CT	3.2x1.6x1.95	850	1.45	1.7	10	20	20

UNIT : mm

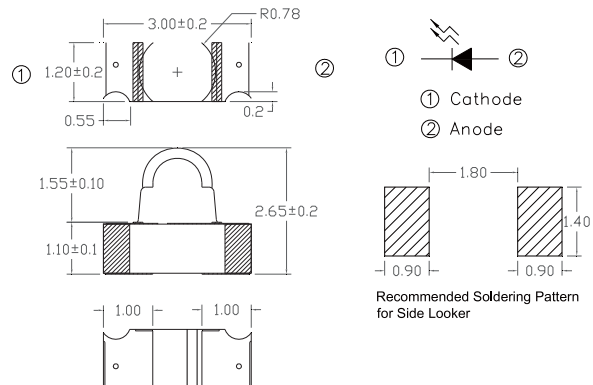


Product	Size (LxWxHmm)	λ_p (nm)	V _F Typ (V)	V _F Max (V)	I _{e_Min} (mW/sr)	I _{e_Typ} (mW/sr)	Viewing Angle (°)
IR26-51C/L110/TR8	3.2x1.6x2.5	940	1.2	1.5	1	3.5	20

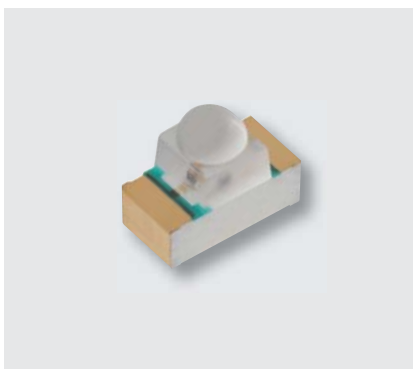
Infrared LED and Silicon Detector | Emitter | SMD



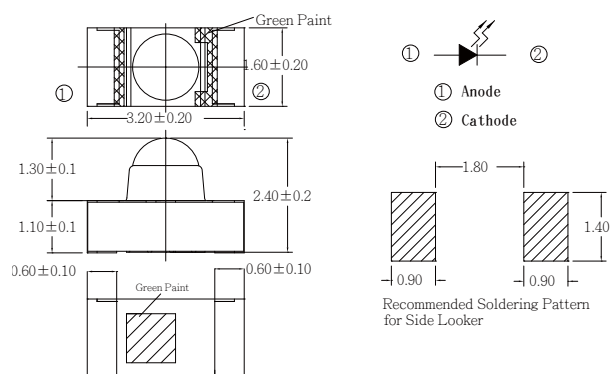
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR26-61C/L302/TR8	3x2.65x1.2	940	1.25	1.5	4.0	8.0	20



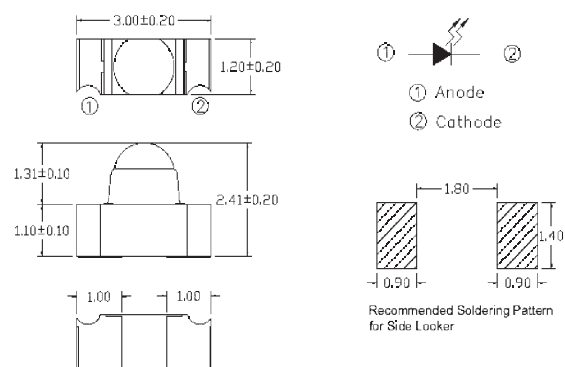
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR26-71C/L302/TR8	3x2.4x1.6	940	1.25	1.5	2.0	4.5	45



UNIT : mm

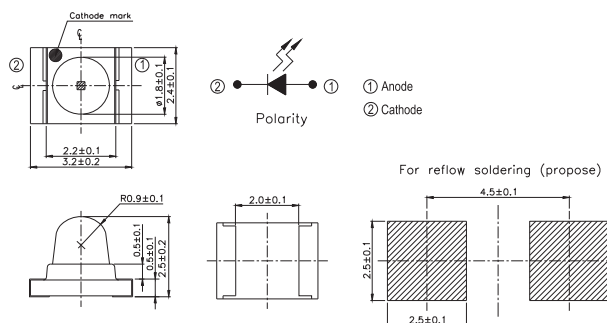


Product	Size (LxWxHmm)	λ_P (nm)	V_F Typ (V)	V_F Max (V)	I_{E_Min} (mW/sr)	I_{E_Typ} (mW/sr)	Viewing Angle (°)
IR26-71C/L447/S63/TR8	3.0x2.41x1.2	940	1.33	1.6	2	8.5	46

Infrared LED and Silicon Detector | Emitter | SMD



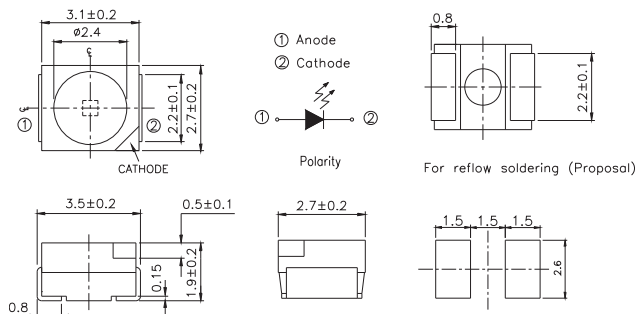
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR42-21C/TR8	3.2x2.4x2.5	940	1.2	1.5	1	3	30
HIR42-21C/L290/TR8	3.2x2.4x2.5	850	1.4	1.7	7	14	35



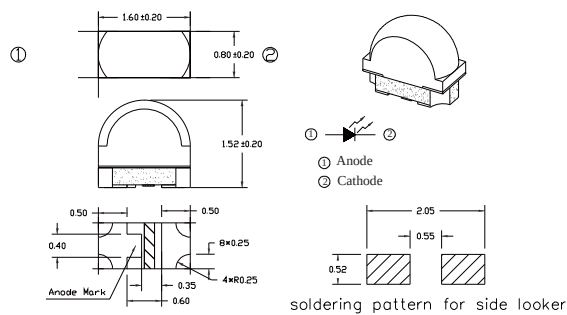
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR67-21C/L11/TR8	3.5x2.7x1.9	850	1.45	1.65	1	2	120
IR67-21C/TR8	3.5x2.7x1.9	940	1.2	1.5	1	1.5	120
SIR67-21C/TR8	3.5x2.7x1.9	875	1.3	1.6	0.5	1.1	120
HIR67-21C/L289/TR8	3.5x2.7x1.9	850	1.4	1.7	2	3	120



UNIT : mm

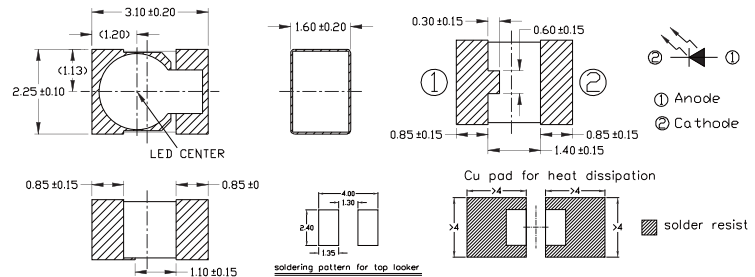


Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR83-01B/TR8	1.6x0.8x1.52	850	1.4	1.4	2	5	100(X) 40(Y)

Infrared LED and Silicon Detector | Emitter | SMD



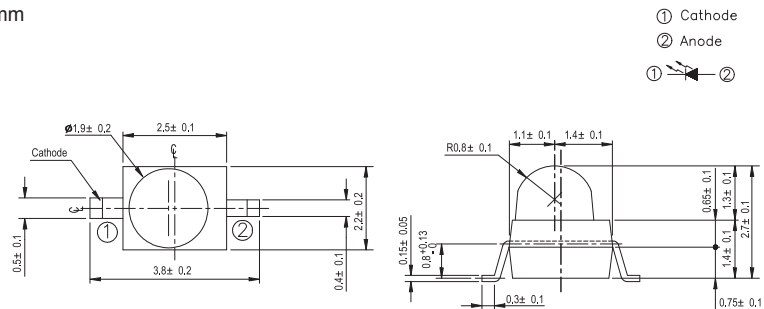
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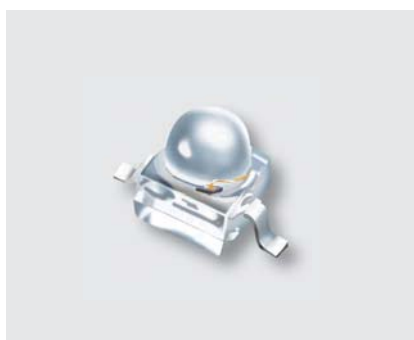
Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR89-01C/1R	3.1x2.25x1.6	850	1.4	1.7	25	55	30
IR89-01C/L447/1R	3.1x2.25x1.6	940	1.25	1.6	25	55	30



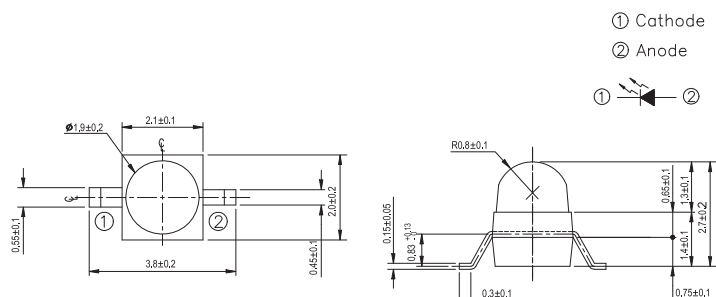
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR91-21C	2.5x2.2x2.7	940	1.2	1.5	3	5	25
IR91-21C/TR7	2.5x2.2x2.7	940	1.2	1.5	3	5	25
IR91-21C/TR10	2.5x2.2x2.7	940	1.2	1.5	3	5	25



UNIT : mm

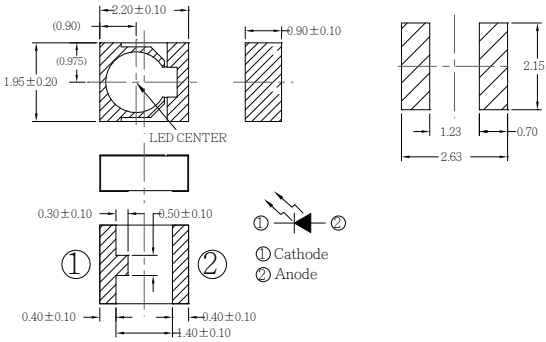


Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR95-21C/TR7	2.1x2x2.7	940	1.2	1.5	3	5	25

Infrared LED and Silicon Detector | Emitter | SMD



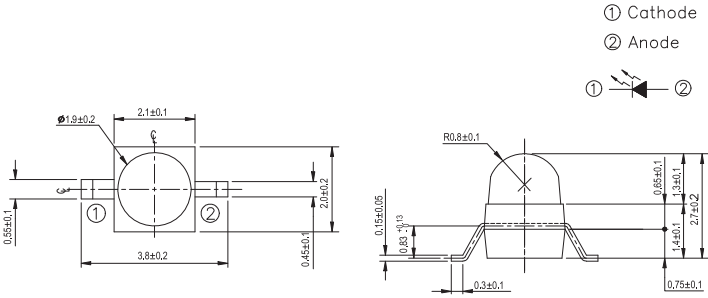
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
HIR91-01C/L297/2T	2.2x1.95x0.9	850	1.6	2	25	40	40



UNIT : mm

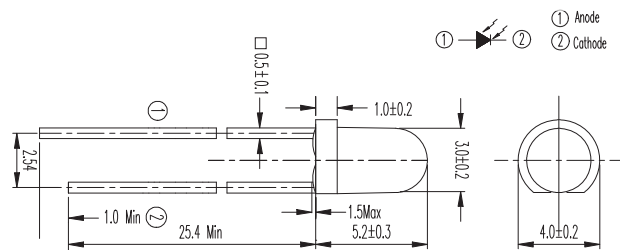


Product	Size (LxWxHmm)	λ_p (nm)	V_F Typ (V)	V_F Max (V)	I_{e_Min} (mW/sr)	I_{e_Typ} (mW/sr)	Viewing Angle (°)
IR95-21C/TR7	2.1x2x2.7	940	1.2	1.5	3	5	25

Infrared LED and Silicon Detector | Photo Diode | DIP



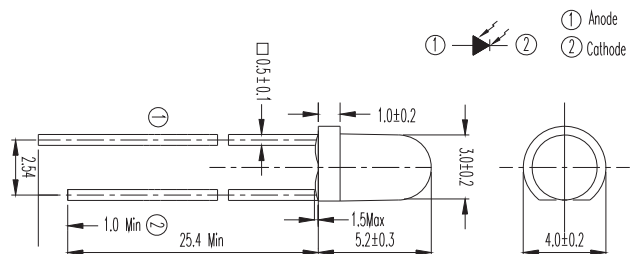
UNIT : mm



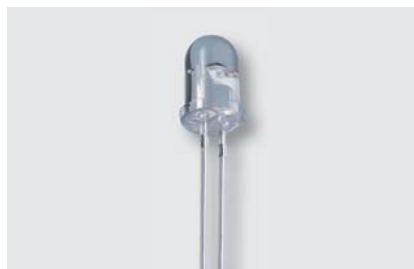
Product	Size (mm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min (V)	ID_Max (nA)
PD204-6C/L3	3	940	--	10	10 / 10	32	10



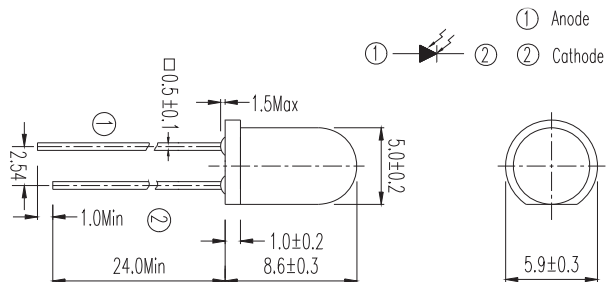
UNIT : mm



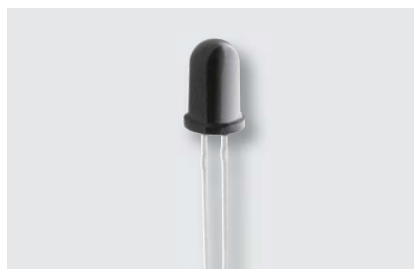
Product	Size (mm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min (V)	ID_Max (nA)
PD204-6B	3	940	1	3	6 / 6	32	10



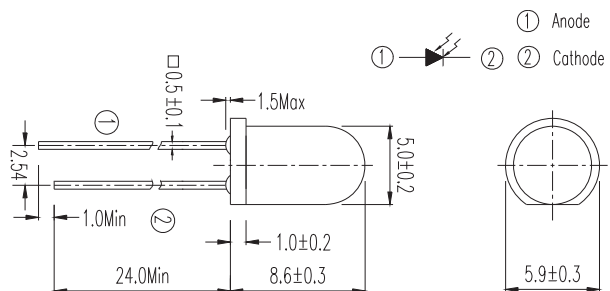
UNIT : mm



Product	Size (mm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min (V)	ID_Max (nA)
PD333-3C/H0/L2	5	940	36	40	45 / 45	32	30



UNIT : mm

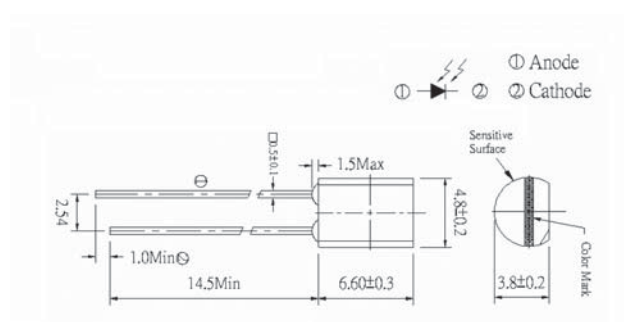


Product	Size (mm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min (V)	ID_Max (nA)
PD333-3B/H0/L2	5	940	25	35	45 / 45	32	30

Infrared LED and Silicon Detector | Photo Diode | Side Look



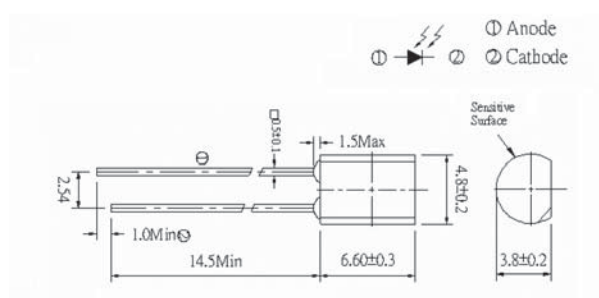
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD438C	4.8x3.8x6.6	940	10.2	18	50 / 50	32	30
PD438C/S46	4.8x3.8x6.6	940	10.2	18	50 / 50	32	30



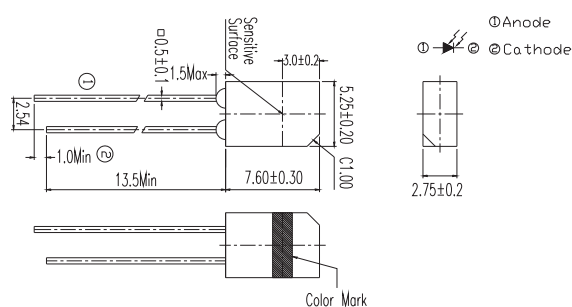
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD438B	4.8x3.8x6.6	940	10.2	18	50 / 50	32	30
PD438B/L1	4.8x3.8x6.6	940	10.2	18	50 / 50	32	30
PD438B/S46	4.8x3.8x6.6	940	10.2	18	50 / 50	32	30



UNIT : mm

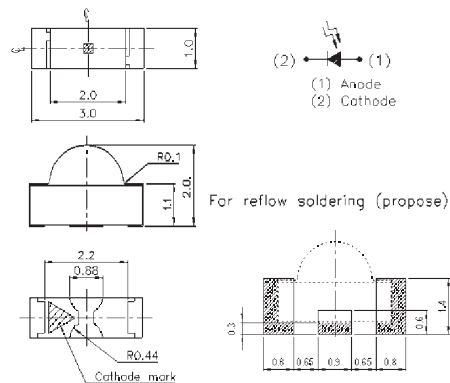


Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD638B	5.2x2.75x7.6	940	10.2	18	50 / 50	32	30

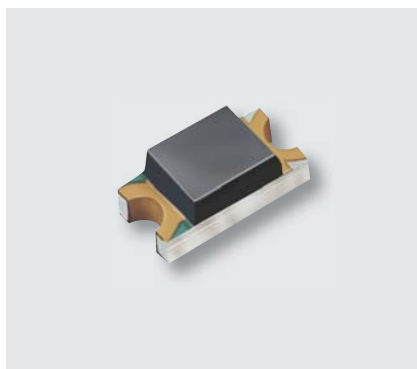
Infrared LED and Silicon Detector | Photo Diode | SMD



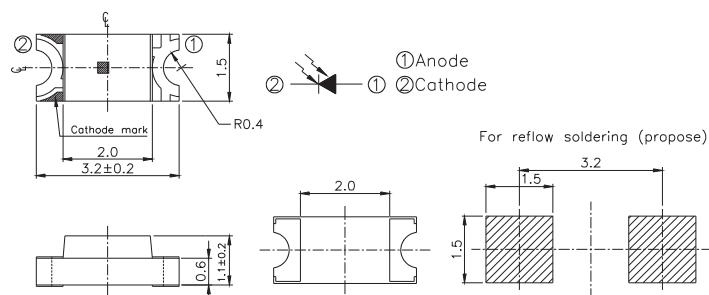
UNIT : mm



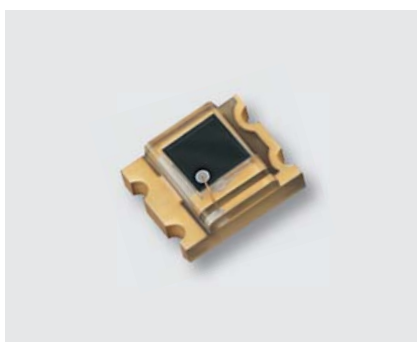
Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD12-21B/L458/TR8	3x2x1	940	1.3	1.5	6 / 6	33	10



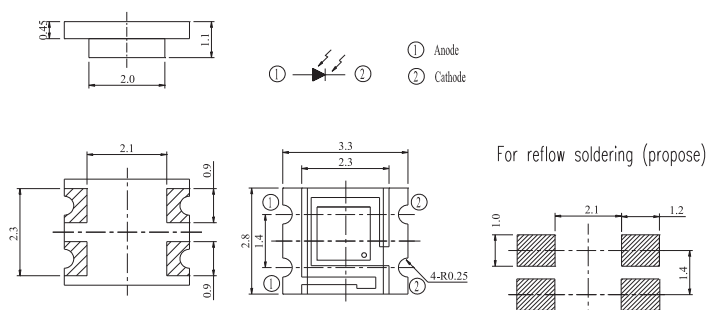
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD15-21B/TR8	3.2x1.5x1.1	940	0.2	0.8	6 / 6	32	10



UNIT : mm

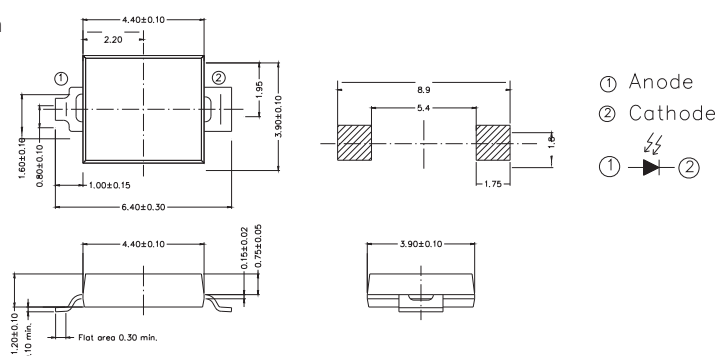


Product	Size (LxWxHmm)	λ_P (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD15-22C/L1/TR8	3.3x2.8x1.1	940	4.2	6.5	10 / 10	32	10

Infrared LED and Silicon Detector | Photo Diode | SMD



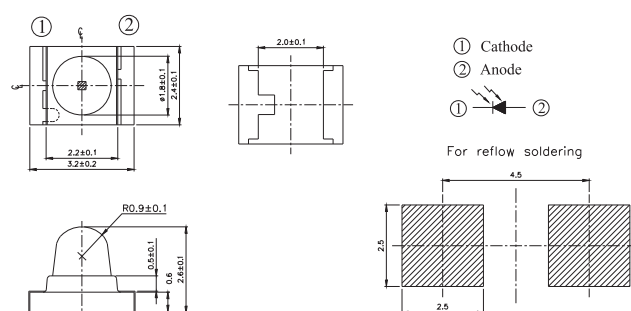
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD70-01B/TR7	4.4x3.9x1.2	940	17	25	50 / 50	32	30
PD70-01C/TR7	4.4x3.9x1.2	940	17	25	50 / 50	32	30



UNIT : mm

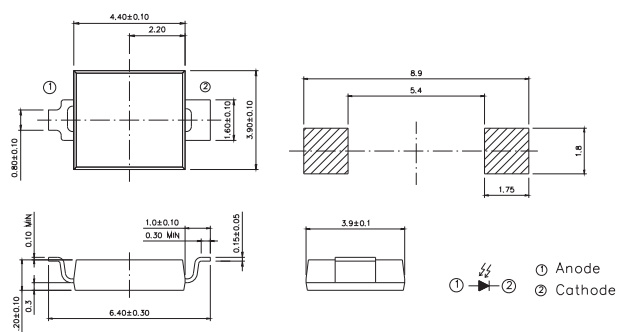


Product	Size (LxWxHmm)	λ_p (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD42-21B/TR8	3.2x2.4x2.6	940	2	4	6 / 6	32	10
PD42-21C/TR8	3.2x2.4x2.6	940	2	5	6 / 6	32	10

Infrared LED and Silicon Detector | Photo Diode | SMD



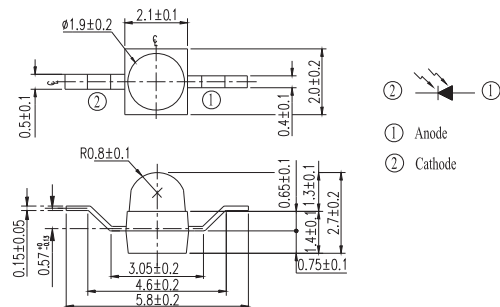
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD70-01B/TR10	4.4x3.9x1.2	940	17	25	50 / 50	32	30
PD70-01C/TR10	4.4x3.9x1.2	940	17	25	50 / 50	32	30



UNIT : mm

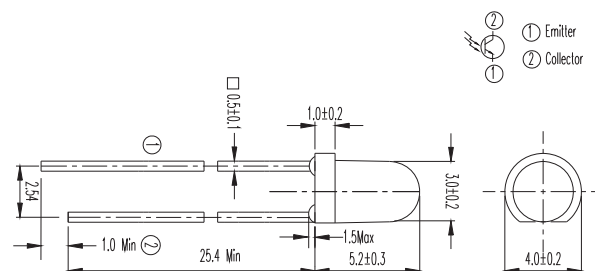


Product	Size (LxWxHmm)	λ_p (nm)	I_L Min (μA)	I_L Typ (μA)	Rise / Fall Time (ns)	BVR_Min.(V)	ID_Max (nA)
PD95-21B/TR10	2.1x2x2.7	940	—	4	6 / 6	32	10

Infrared LED and Silicon Detector I Photo Transistor I DIP



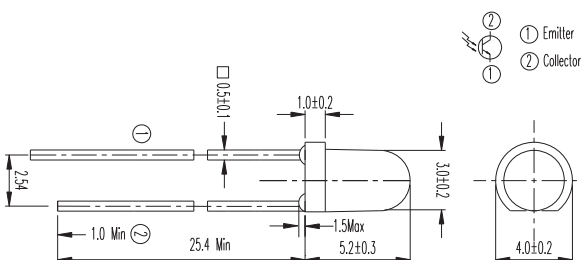
UNIT : mm



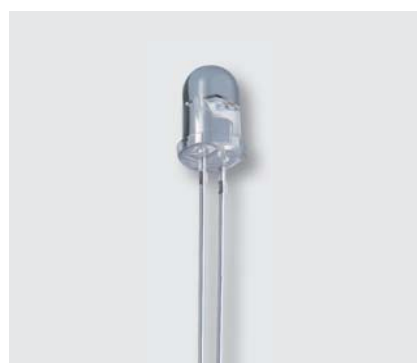
Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT204-6C	3	940	15 / 15	0.4	0.7	2	--



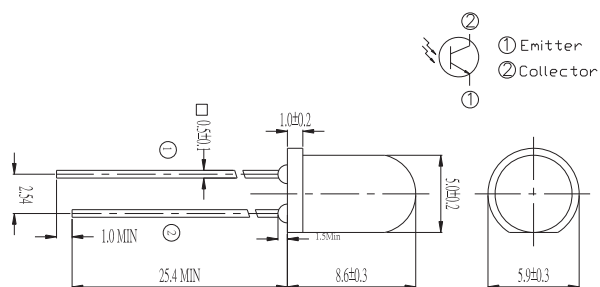
UNIT : mm



Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT204-6B	3	940	15 / 15	0.4	0.7	--	5.07



UNIT : mm

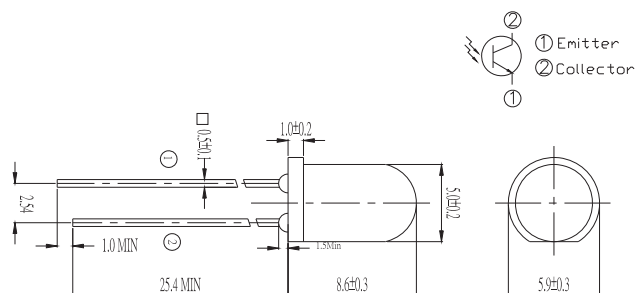


Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT333-3C	5	940	15 / 15	0.4	0.7	4	--

Infrared LED and Silicon Detector | Photo Transistor | DIP



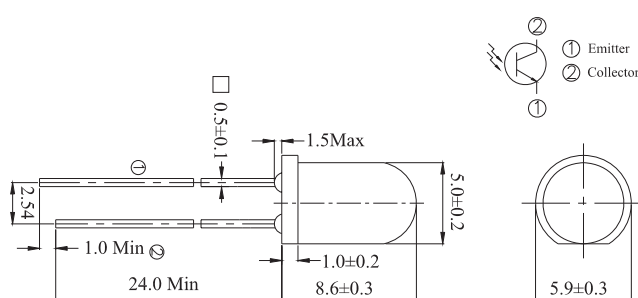
UNIT : mm



Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT333-3B	5	940	15 / 15	0.4	0.7	3	--



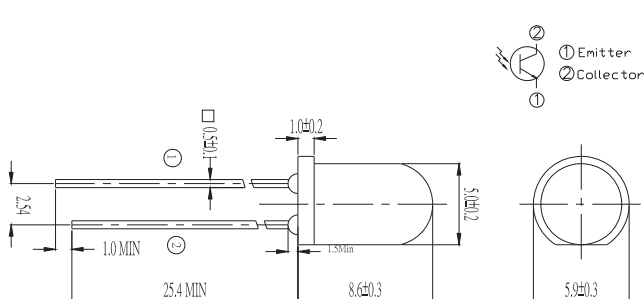
UNIT : mm



Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT334-6C	5	940	15 / 15	0.4	1.77	3.5	--



UNIT : mm

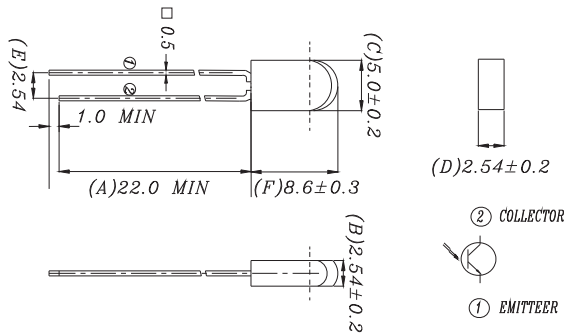


Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT334-6B	5	940	15 / 15	0.4	0.7	2	--

Infrared LED and Silicon Detector | Photo Transistor | DIP



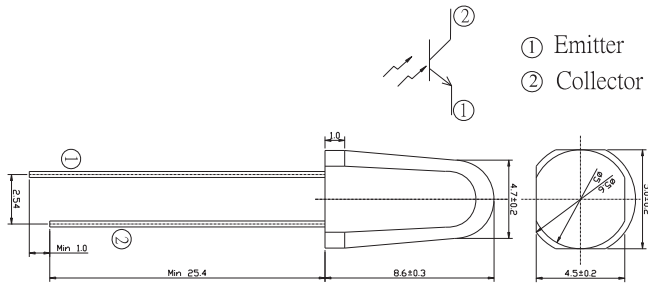
UNIT : mm



Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT534-6B	5	940	15 / 15	0.4	0.7	1.2	--



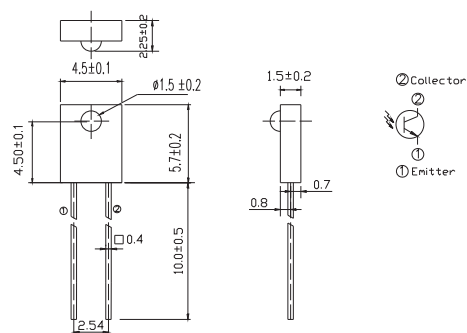
UNIT : mm



Product	Size (mm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT1504-6B	5	940	15 / 15	0.4	1.77	4	--



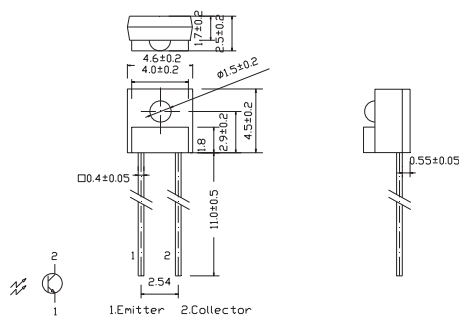
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT908-7B-F	4.5x2.25x5.7	940	15 / 15	0.4	0.8	--	5
PT908-7C-F	4.5x2.25x5.7	940	15 / 15	0.4	0.8	--	5



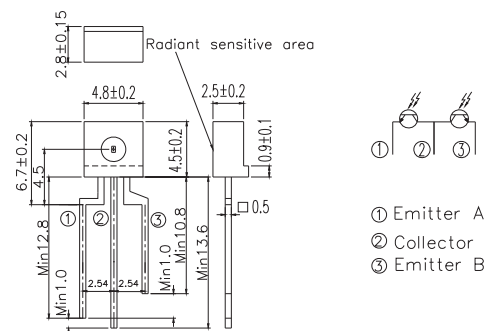
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT928-6B-F	4.6x2.5x4.5	940	15 / 15	0.4	0.53	--	3.41
PT928-6C-F	4.6x2.5x4.5	940	15 / 15	0.4	0.53	--	3.41



UNIT : mm

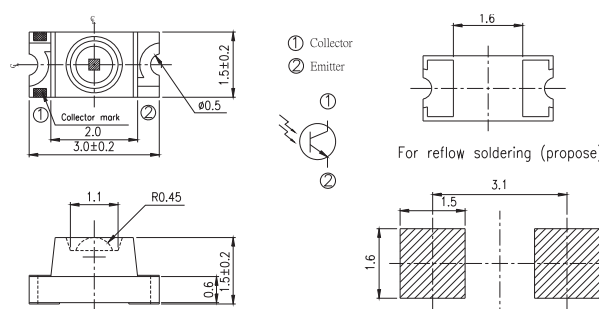


Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT2559B-F	4.8x2.8x4.5	940	15 / 15	0.4	0.129	--	1.018
PT2559B/L2-F	4.8x2.8x4.5	940	15 / 15	0.4	0.129	--	1.085
PT2559B/L2/H2-F	4.8x2.8x4.5	940	15 / 15	0.4	0.129	--	1.085
PT5529B/L2-F	4.8x2.8x4.5	940	15 / 15	0.4	0.129	--	1.085
PT5529B/L2/H2-F	4.8x2.8x4.5	940	15 / 15	0.4	0.129	--	1.085

Infrared LED and Silicon Detector | Photo Transistor | SMD



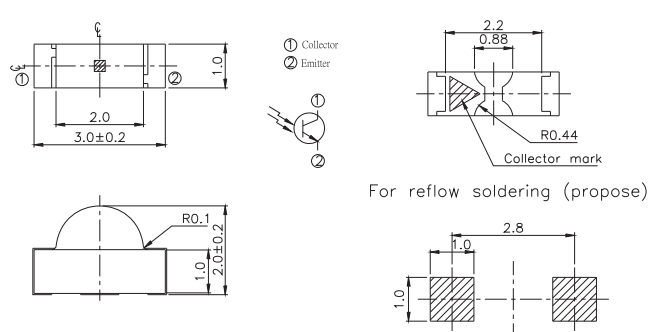
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT11-21C/L41/TR8	3x1.5x1.5	940	15 / 15	0.4	0.3	0.8	—



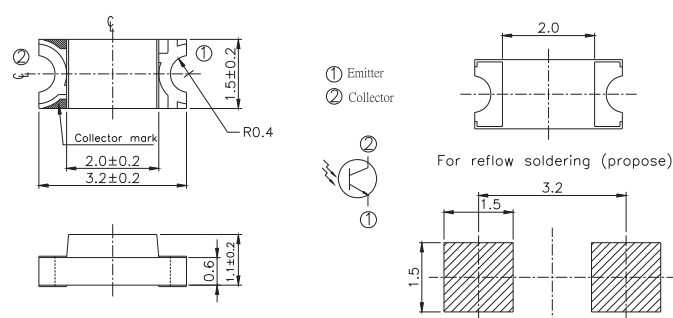
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT12-21B/TR8	3x1x2	940	15 / 15	0.4	0.3	1.14	—
PT12-21C/TR8	3x1x2	940	15 / 15	0.4	0.3	1.14	—

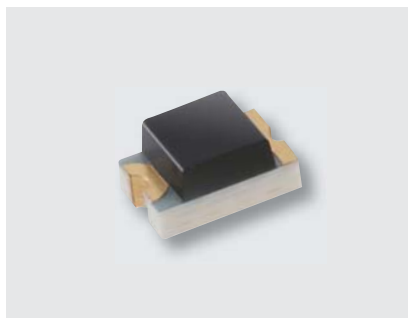


UNIT : mm

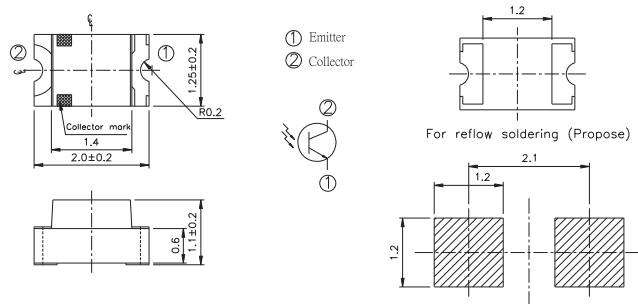


Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT15-21B/TR8	3.2x1.5x1.1	940	15 / 15	0.4	0.1	0.3	—
PT15-21C/TR8	3.2x1.5x1.1	940	15 / 15	0.4	0.1	0.3	—

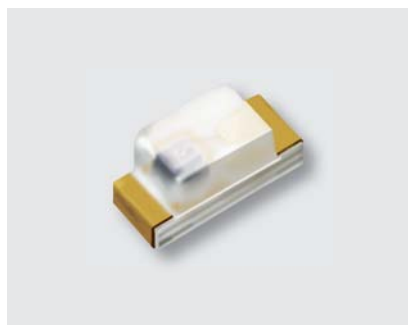
Infrared LED and Silicon Detector | Photo Transistor | SMD



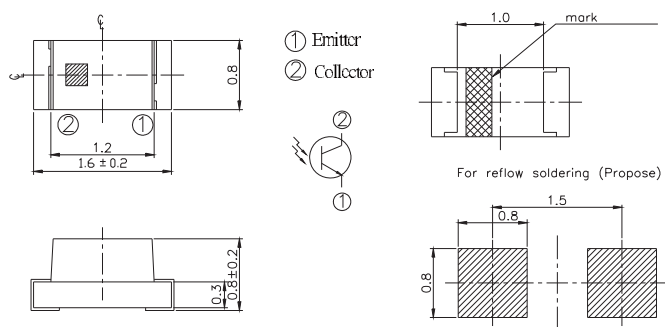
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT17-21B/L41/TR8	2x1.25x1.1	940	15 / 15	0.4	0.1	0.65	—
PT17-21C/L41/TR8	2x1.25x1.1	940	15 / 15	0.4	0.3	1	—



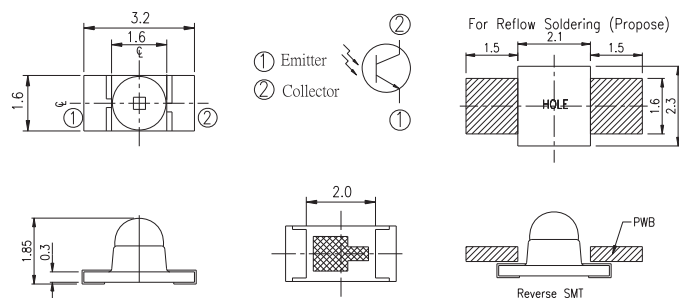
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT19-21B/L41/TR8	1.6x0.8x0.8	940	15 / 15	0.4	0.3	0.6	—
PT19-21C/L41/TR8	1.6x0.8x0.8	940	15 / 15	0.4	0.3	0.6	—



UNIT : mm

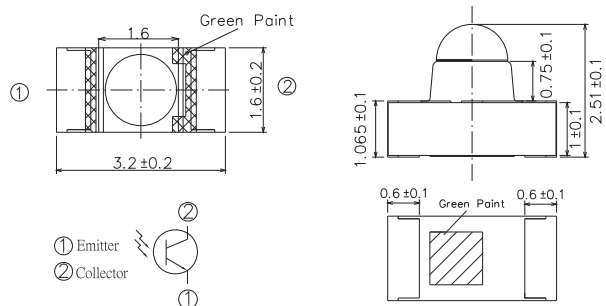


Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT26-21B/TR8	3.2x1.6x1.85	940	15 / 15	0.4	—	1	—
PT26-21C/TR8	3.2x1.6x1.85	940	15 / 15	0.4	0.3	2.6	—

Infrared LED and Silicon Detector | Photo Transistor | SMD



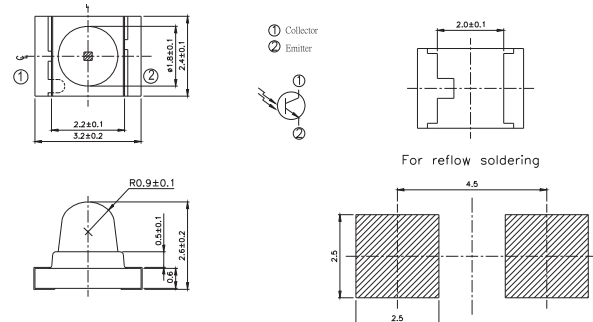
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT26-51B/TR8	3.2x1.6x2.5	940	15 / 15	0.4	--	1	--



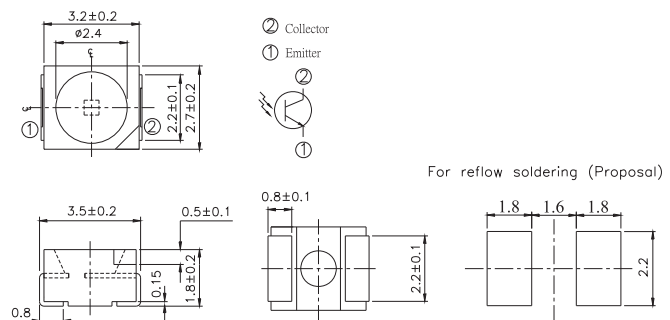
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT42-21B/TR8	3.2x2.4x2.6	940	15 / 15	0.4	1.77	3	--



UNIT : mm

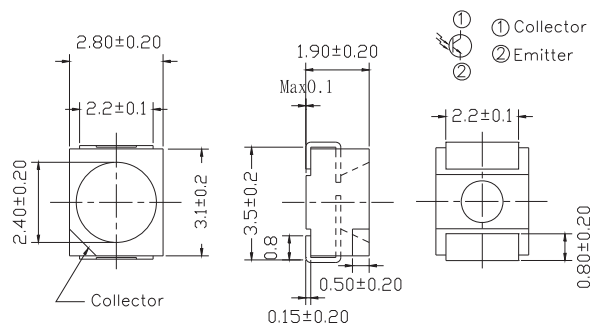


Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μ s)	$V_{CE(SAT)}_{Max}$ (V)	$I_{C(ON)}_{Min}$ (mA)	$I_{C(ON)}_{Typ}$ (mA)	$I_{C(ON)}_{Max}$ (mA)
PT67-21B/C14/TR8	3.5x2.7x1.8	940	15 / 15	0.4	0.016	--	0.08

Infrared LED and Silicon Detector | Photo Transistor | SMD



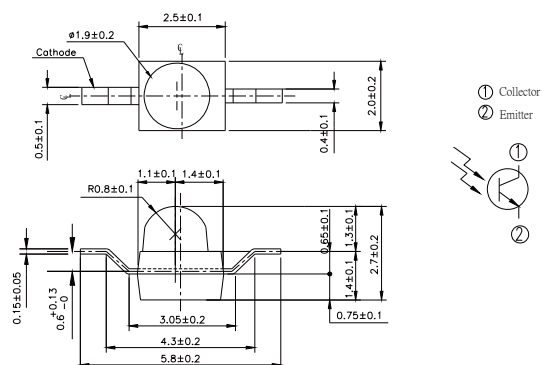
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT67-21C/L41/TR8	3.5x2.8x1.9	940	15 / 15	0.4	0.3	--	1



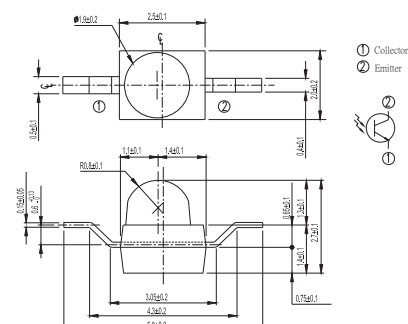
UNIT : mm



Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT91-21B	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--
PT91-21B/TR10	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--
PT91-21B/TR7	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--
PT91-21B/TR9	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--



UNIT : mm

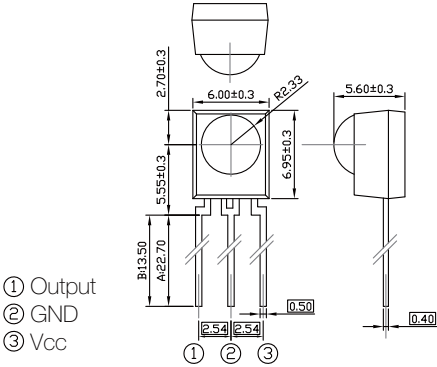


Product	Size (LxWxHmm)	λ_P (nm)	Rise / Fall Time (μs)	$V_{CE(SAT_Max)}$ (V)	$I_{C(ON_Min)}$ (mA)	$I_{C(ON_Typ)}$ (mA)	$I_{C(ON_Max)}$ (mA)
PT91-21C	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--
PT91-21C/TR10	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--
PT91-21C/TR7	2.5x2x2.7	940	15 / 15	0.4	1	1.5	--

Infrared Receiver Module | Short Burst | DIP-Vo – GND – Vcc



UNIT : mm

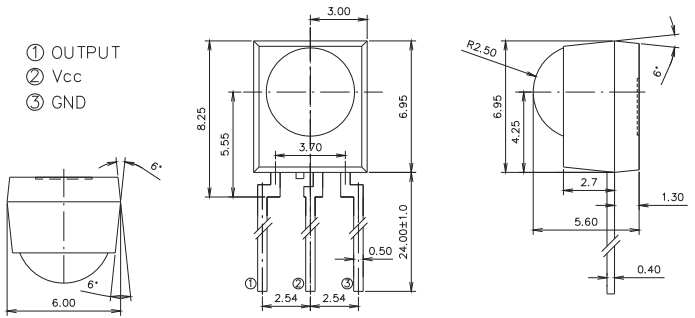


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-3636M ^(A)	8.25x6x5.6	940	36	3~5	0.4	14	6
IRM-3638M ^(A)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3656M ^(A)	8.25x6x5.6	940	56	3~5	0.4	14	6
IRM-3636M-X ^(B)	8.25x6x5.6	940	36	3~5	0.4	14	6
IRM-3638M-X ^(B)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3656M-X ^(B)	8.25x6x5.6	940	56	3~5	0.4	14	6

Infrared Receiver Module | Short Burst | DIP-Vo – Vcc – GND



UNIT : mm

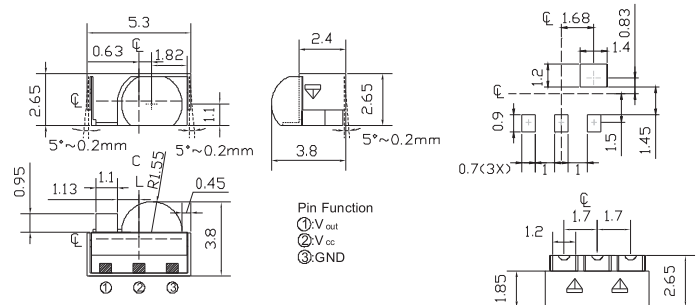


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-3736M	8.25x6x5.6	940	36	3~5	0.4	14	6
IRM-3738M	8.25x6x5.6	940	38	3~5	0.4	14	6

Infrared Receiver Module | Short Burst | SMD



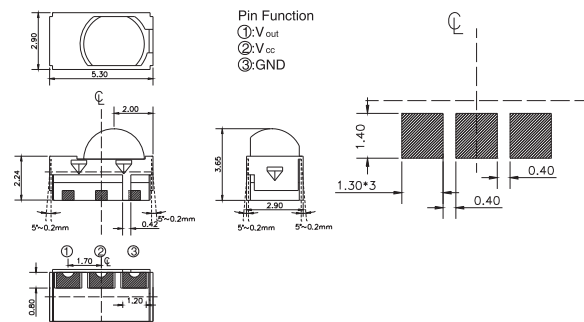
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-V536M/TR1	5.3x3.8x2.65	940	36	3~5	0.4	8	5



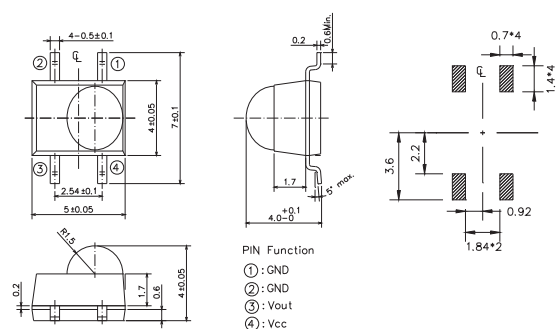
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-H536M/TR2	5.3x2.9x3.65	940	36	3~5	0.4	8	5



UNIT : mm

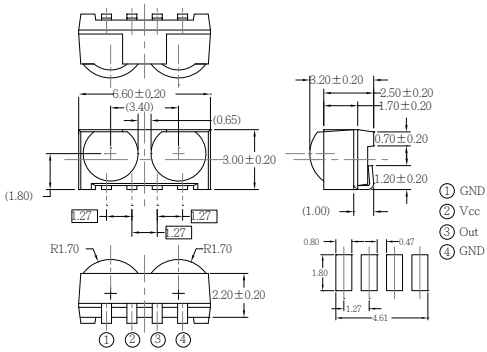


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-H636M/TR2	5x4x4	940	36	3~5	0.4	8	5

Infrared Receiver Module | Short Burst | SMD



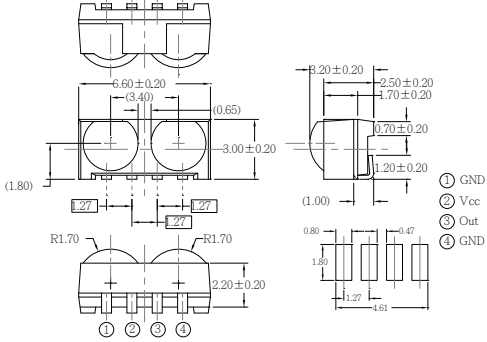
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H836M/TR2	6.6×3×3.2	940	36	3~5	0.4	8	5



UNIT : mm

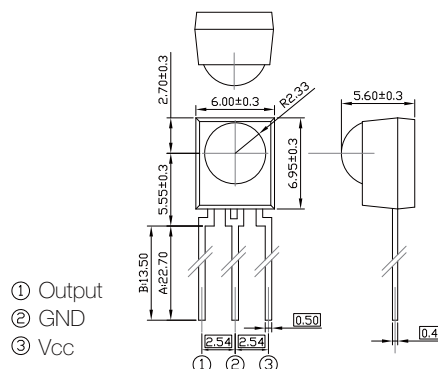


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-V836M/TR1	6.6×3.2×3	940	36	3~5	0.4	8	5

Infrared Receiver Module I Standard Burst I DIP-Vo – GND – Vcc



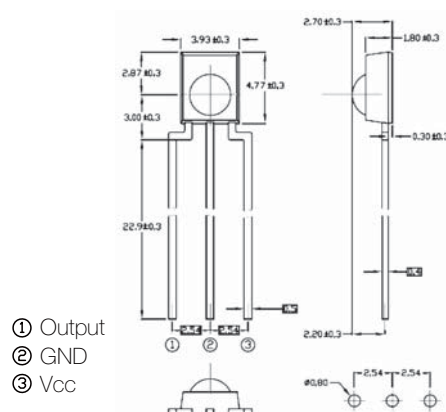
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-3636M3 ^(A)	8.25x6x5.6	940	36	3~5	0.4	14	6
IRM-3636T ^(A)	8.25x6x5.6	940	36	3~5	1	14	6
IRM-3638M2 ^(A)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3638M3 ^(A)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3638T ^(A)	8.25x6x5.6	940	38	3~5	1	14	6
IRM-3638C ^(A)	8.25x6x5.6	940	38	2.7~5	0.9	14	6
IRM-3640M2 ^(A)	8.25x6x5.6	940	40	3~5	0.4	14	6
IRM-3640T ^(A)	8.25x6x5.6	940	40	3~5	1	14	6
IRM-3640C ^(A)	8.25x6x5.6	940	40	2.7~5	0.9	14	6
IRM-3656M3 ^(A)	8.25x6x5.6	940	56	3~5	0.4	14	6
IRM-3656T ^(A)	8.25x6x5.6	940	56	3~5	1	14	6
IRM-3636T-X ^(B)	8.25x6x5.6	940	36	3~5	1	14	6
IRM-3638M2-X ^(B)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3638M3-X ^(B)	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3638T-X ^(B)	8.25x6x5.6	940	38	3~5	1	14	6
IRM-3638C-X ^(B)	8.25x6x5.6	940	38	2.7~5	0.9	14	6
IRM-3640T-X ^(B)	8.25x6x5.6	940	40	3~5	1	14	6
IRM-3656M3-X ^(B)	8.25x6x5.6	940	56	3~5	0.4	14	6



UNIT : mm

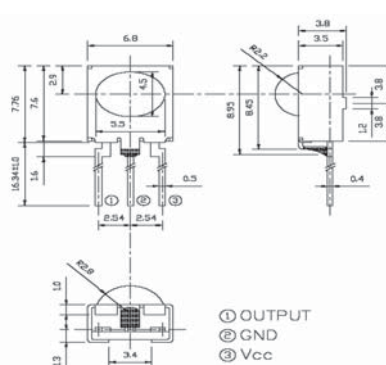


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-6638M3	6.27x4.36x3.1	940	38	3~5	0.4	8	4
IRM-6638T	6.27x4.36x3.1	940	38	3~5	1	8	4
IRM-6640M2	6.27x4.36x3.1	940	40	3~5	0.4	8	4

Infrared Receiver Module ■ Standard Burst ■ DIP-Vo – GND – Vcc



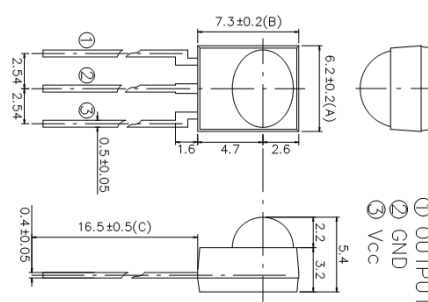
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8601M2	9.2x6.8x6	940	38	3~5	0.4	8	4
IRM-8601M2-2	9.2x6.8x6	940	36	3~5	0.4	8	4



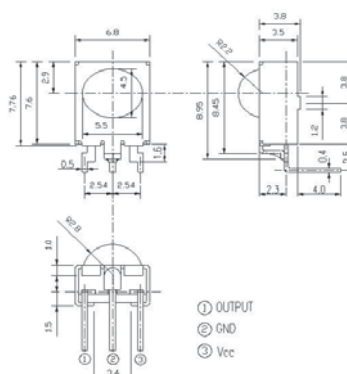
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-8601M2-M	7.3×6.2×5.4	940	38	3~5	0.4	14	6



UNIT : mm

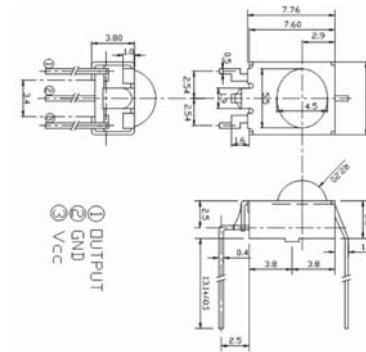


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8602M2	10.1x6.8x6	940	38	3~5	0.4	8	4
IRM-8602M2-2	10.1x6.8x6	940	36	3~5	0.4	8	4

Infrared Receiver Module | Standard Burst | DIP-Vo – GND – Vcc



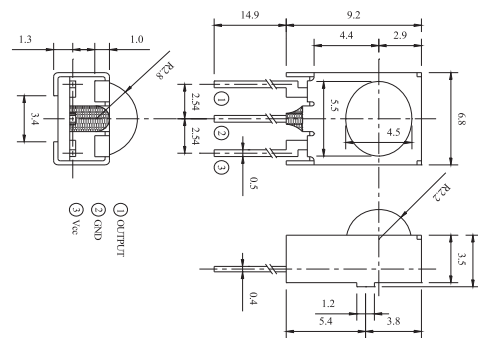
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8607M2	10.1x6.8x6	940	38	3~5	0.4	8	4



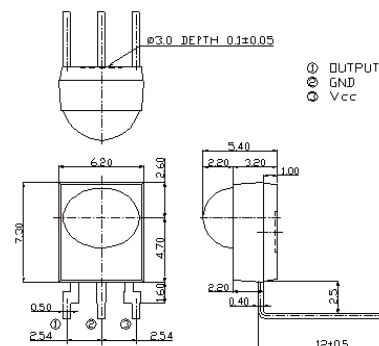
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8608M2	9.2x6.8x6	940	38	3~5	0.4	8	4



UNIT : mm

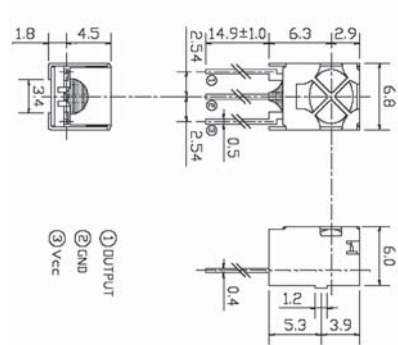


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8609M2-4-M	9.2x6.2x5.4	940	40	3~5	0.4	14	6

Infrared Receiver Module | Standard Burst | DIP-Vo – GND – Vcc



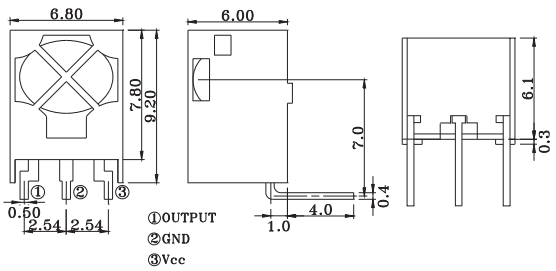
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8751M2	9.2x6.8x6	940	38	3~5	0.4	8	4



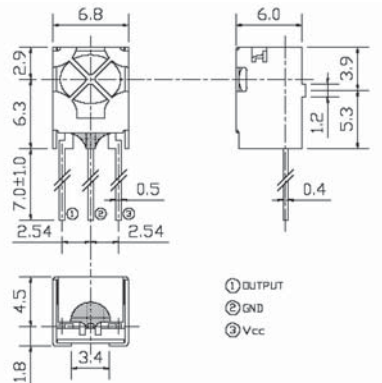
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8752M2	10.1x6.8x6	940	38	3~5	0.4	8	4



UNIT : mm

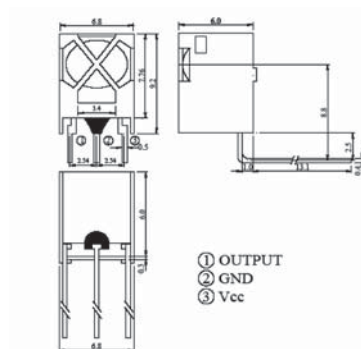


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8753M2	9.2x6.8x6	940	38	3~5	0.4	8	4

Infrared Receiver Module ■ Standard Burst ■ DIP-Vo – GND – Vcc



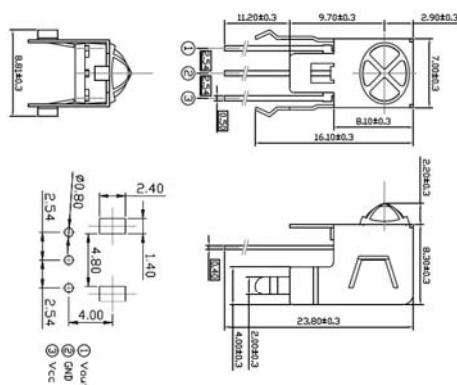
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-8755M2	9.2x6.8x6	940	38	3~5	0.4	8	4



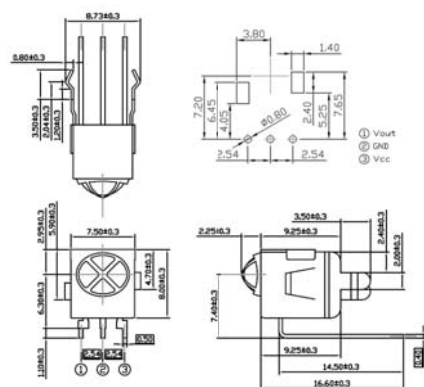
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8861M2	8.1×7×10.5	940	38	3~5	0.4	8	4



UNIT : mm

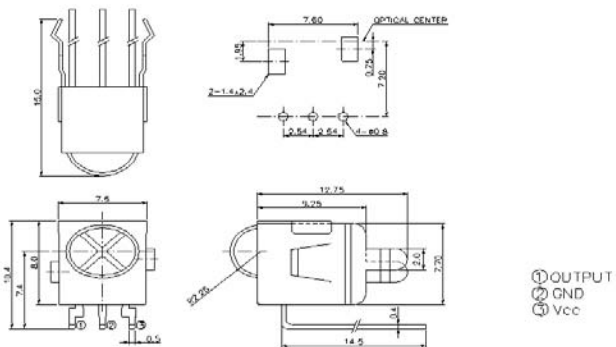


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-8871M2	10.4x7.5x11.5	940	38	3~5	0.4	8	4

Infrared Receiver Module ■ Standard Burst ■ DIP-Vo – GND – Vcc



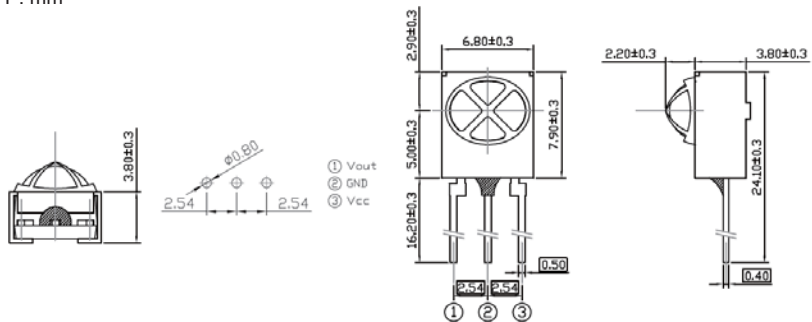
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-8871M2-F72	10.4x7.5x11.5	940	38	3~5	0.4	8	4



UNIT : mm

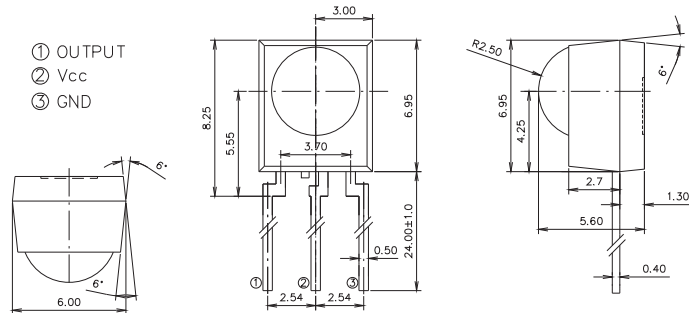


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I _{CC} Typ (mA)	L _{Center} (m)	L ₄₅ (m)
IRM-8881M2	7.9x6.8x6	940	38	3~5	0.4	8	4

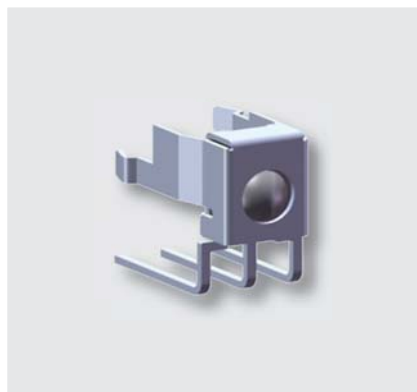
Infrared Receiver Module | Standard Burst | DIP-Vo – Vcc – GND



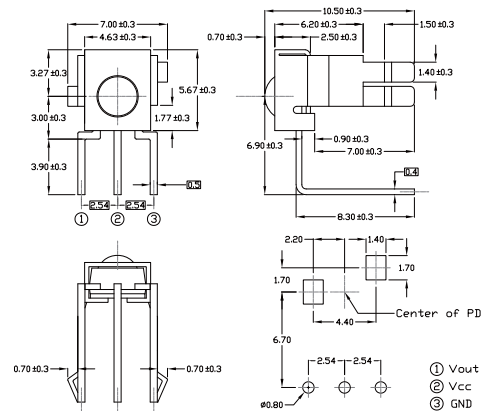
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-3736M3	8.25x6x5.6	940	36	3~5	0.4	14	6
IRM-3738T	8.25x6x5.6	940	38	3~5	1	14	6
IRM-3738M3	8.25x6x5.6	940	38	3~5	0.4	14	6
IRM-3740T	8.25x6x5.6	940	40	3~5	1	14	6
IRM-3740M2	8.25x6x5.6	940	40	3~5	0.4	14	6
IRM-3756M3	8.25x6x5.6	940	56	3~5	0.4	14	6
IRM-3756T	8.25x6x5.6	940	56	3~5	1	14	6

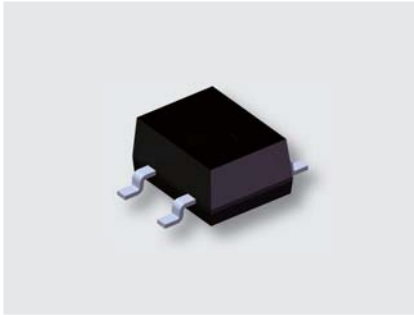


UNIT : mm

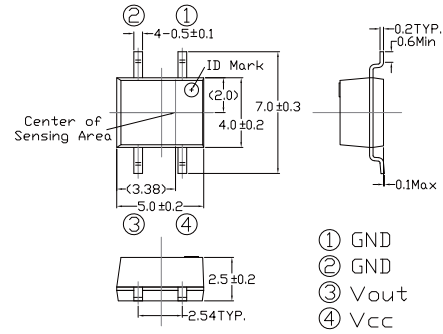


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-6738M3S47F61	10.2x7x6.9	940	38	3~5	0.4	8	5
IRM-6736M3S47F61	10.2x7x6.9	940	36	3~5	0.4	8	5

Infrared Receiver Module | Standard Burst | SMD



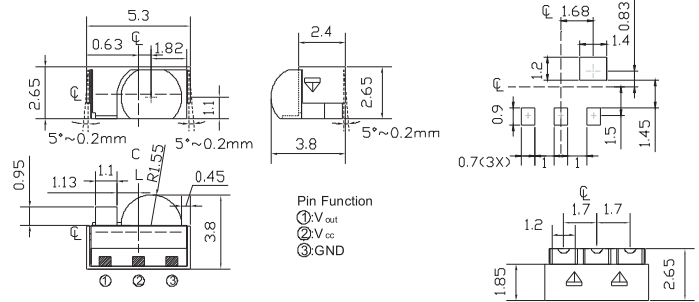
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H936M3/TR2	5×4×2	940	36	3~5	0.4	8	5
IRM-H938M3/TR2	5×4×2	940	38	3~5	0.4	8	5



UNIT : mm

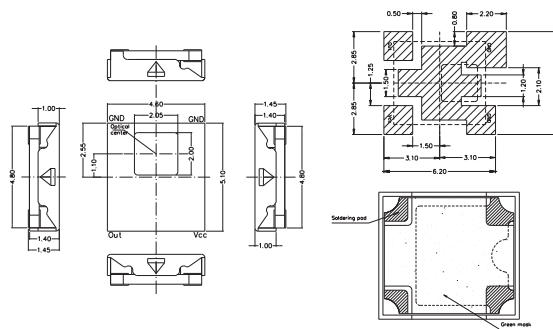


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-V538M3/TR1	5.3x3.8x2.65	940	38	3~5	0.4	8	5
IRM-V538T/TR1	5.3x3.8x2.65	940	38	3~5	1	8	5
IRM-V540M2/TR1	5.3x3.8x2.65	940	40	3~5	0.4	8	5

Infrared Receiver Module | Standard Burst | SMD



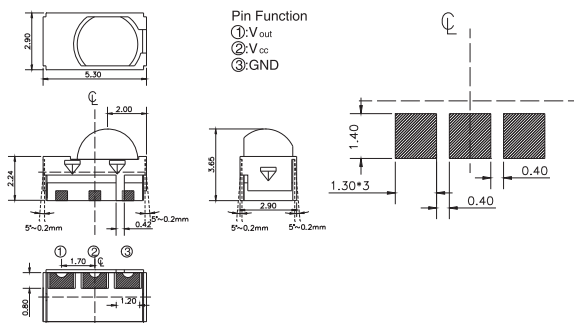
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H236T/TR2	5.1×4.6×1.45	940	36	3~5	1	8	5
IRM-H238M3/TR2	5.1×4.6×1.45	940	38	3~5	0.4	8	5
IRM-H238T/TR2	5.1×4.6×1.45	940	38	3~5	1	8	5
IRM-H240M2/TR2	5.1×4.6×1.45	940	40	3~5	0.4	8	5
IRM-H240C/TR2	5.1×4.6×1.45	940	40	2.7~5	0.9	8	5



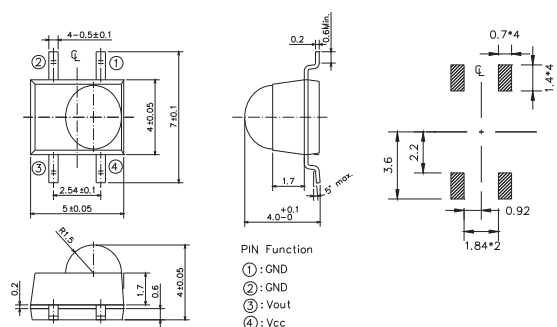
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H538T/TR2	5.3×2.9×3.65	940	38	3~5	1	8	5



UNIT : mm

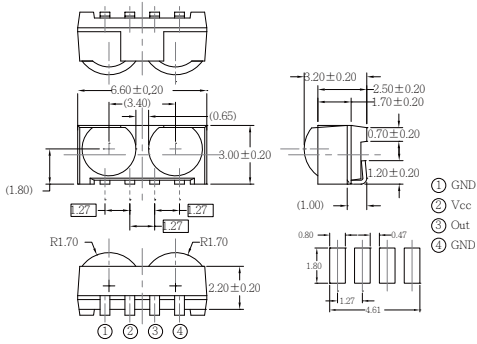


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H636M3/TR2	5×4×4	940	36	3~5	0.4	8	5
IRM-H636T/TR2	5×4×4	940	36	3~5	1	8	5
IRM-H638M3/TR2	5×4×4	940	38	3~5	0.4	8	5
IRM-H638T/TR2	5×4×4	940	38	3~5	1	8	5
IRM-H656T/TR2	5×4×4	940	56	3~5	1	8	5

Infrared Receiver Module | Standard Burst | SMD



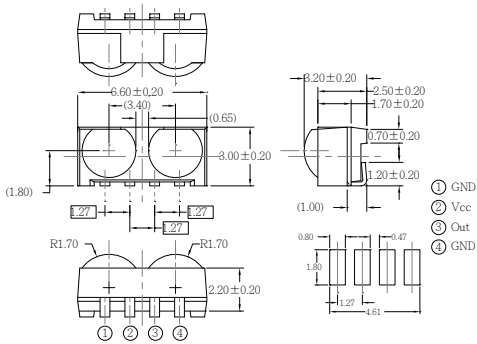
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-V838M3/TR1	6.6×3.2×3	940	38	3~5	0.4	8	5



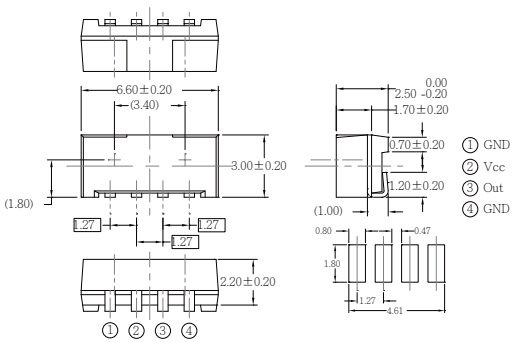
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H838M3/TR2	6.6×3×3.2	940	38	3~5	0.4	8	5



UNIT : mm

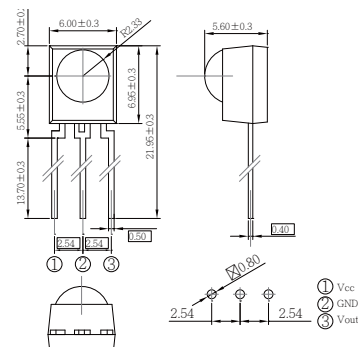


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H338M3/TR2	6.6×3×2.5	940	38	3~5	0.4	8	5

Infrared Receiver Module ■ Width Band ■ DIP-Vo – GND – Vcc

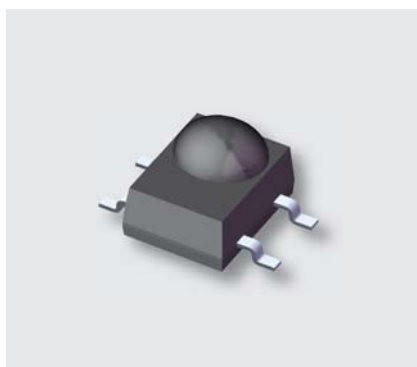


UNIT : mm

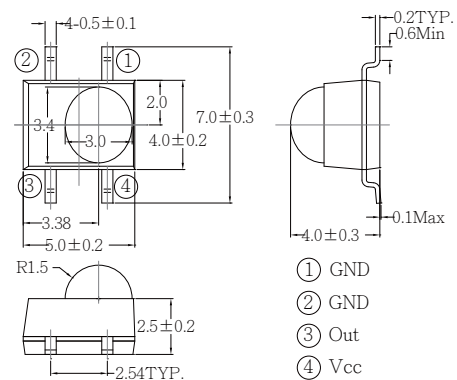


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-3600W	8.25x6x5.6	940	30~56	2.5~5	1.2	14	6

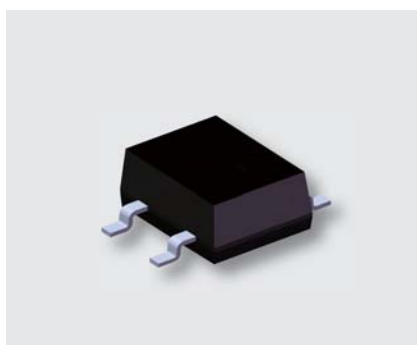
Infrared Receiver Module ■ 3D



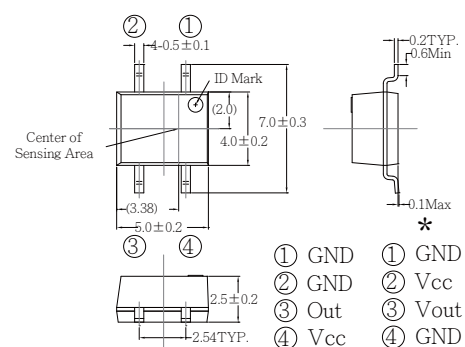
UNIT : mm



Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H620J5/TR2	5×4×4	850	20	2.5~5	0.6	8	5



UNIT : mm

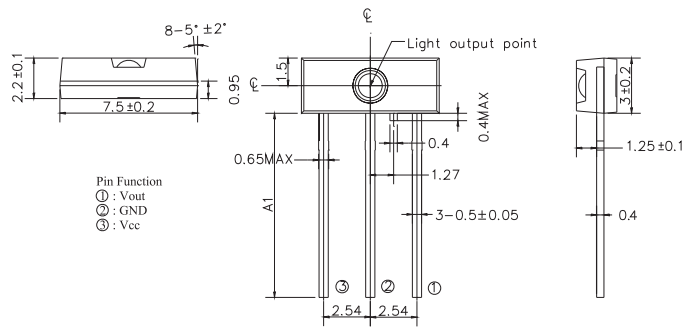


Product	Size (LxWxHmm)	λ_p (nm)	Carrier Freq. (KHz)	Supply Voltage (V)	I_{CC} Typ (mA)	L_{Center} (m)	L_{45} (m)
IRM-H920J5/TR2	5×4×2	850	20	2.5~5	0.6	8	5
*IRM-H920J5F1/TR2	5×4×2	850	20	2.5~5	0.6	8	5

Optic-Fiber Device (Photo Link) | Receiver (PLR) Component



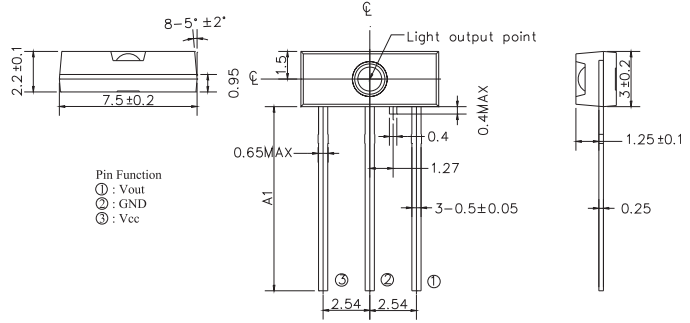
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLR135	7.5x3x2.2	-14	-27	2.4~5.5	None	16	0.4



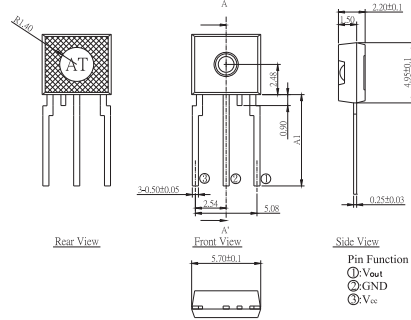
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLR137	7.5x3x2.2	-14	-27	2.4~5.5	None	16	0.25



UNIT : mm

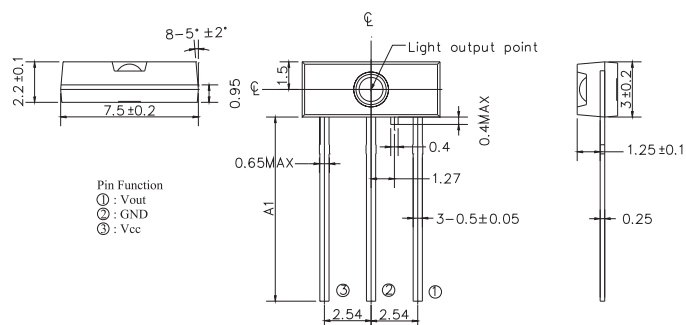


Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLR155	5.7x4.95x2.2	-14	-27	2.4~5.5	None	16	0.25

Optic-Fiber Device (Photo Link) ■ Receiver (PLR) Component



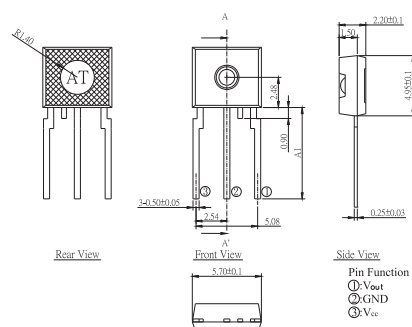
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLR233	7.5x3x2.2	-14	-27	2.4~5.5	None	25	0.4



UNIT : mm



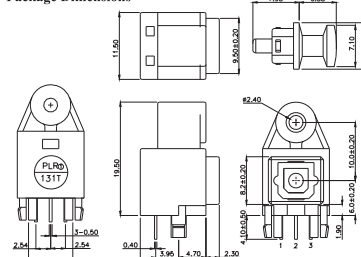
Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLR253	5.7x4.95x2.2	-14	-27	2.4~5.5	None	25	0.25

Optic-Fiber Device (Photo Link) ■ Receiver (PLR) Module



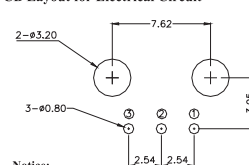
UNIT : mm

Package Dimensions



NOTICE:
1. All dimensions are in mm.
2. Unspecified tolerance is ± 0.30 mm.

PCB Layout for Electrical Circuit



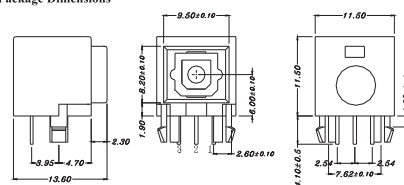
Notice:
1. Unit:mm
2. PCB tolerance:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLR135/T	11.5x13.6x19.5	-14	-27	2.4~5.5	Yes	16	0.4



UNIT : mm

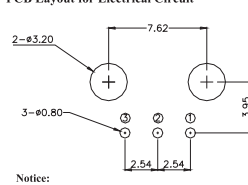
Package Dimensions



Notes: 1. All dimensions are in millimeters.
2. General Tolerance : ± 0.3 mm

Pin Function: 1.Vout
2.GND
3.Vcc

PCB Layout for Electrical Circuit



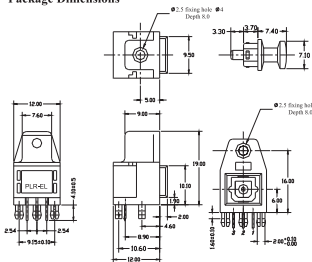
Notice:
1. Unit:mm
2. PCB tolerance:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLR135/T1	11.5x13.6x11.5	-14	-27	2.4~5.5	Yes	16	0.4



UNIT : mm

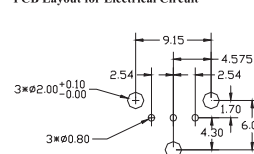
Package Dimensions



Notes: 1. All dimensions are in millimeters.
 ± 0.3 mm

Pin Function: 1.Vout
2.GND
3.Vcc

PCB Layout for Electrical Circuit



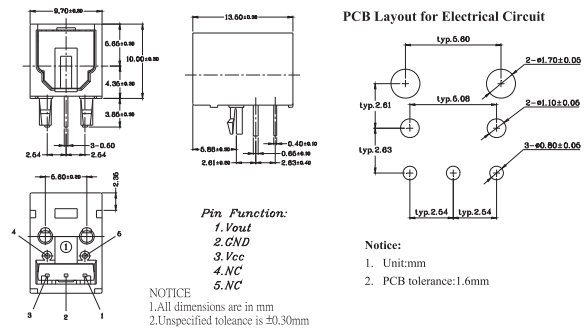
Notice:
1. Unit:mm
2. PCB tolerance:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLR135/T2	12x14x19	-14	-27	2.4~5.5	Yes	16	0.4

Optic-Fiber Device (Photo Link) ■ Receiver (PLR) Module



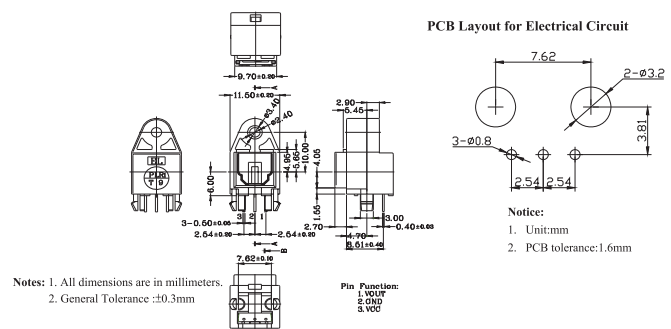
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLR135/T8	9.7x13.5x10	-14	-27	2.4~5.5	Yes	16	0.4



UNIT : mm

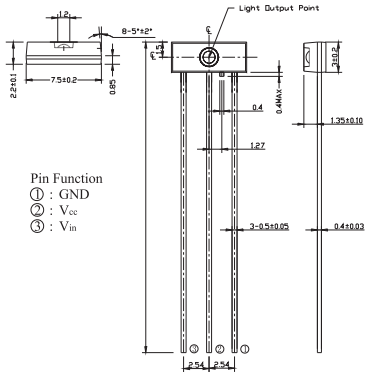


Product	Size (LxWxHmm)	Fiber Coupling Receiver Power_ Max (dBm)	Fiber Coupling Receiver Power_ Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLR135/T9	11.5x14x20	-14	-27	2.4~5.5	Yes	16	0.4

Optic-Fiber Device (Photo Link) | Transmitter (PLT) Component



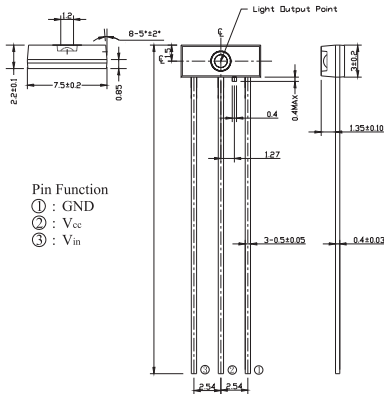
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT132	7.5x3x2.2	-15	-21	3~5	None	16	0.4



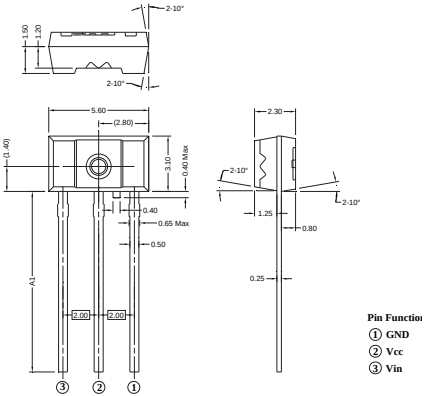
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT133	7.5x3x2.2	-15	-21	3~5	None	16	0.4



UNIT : mm

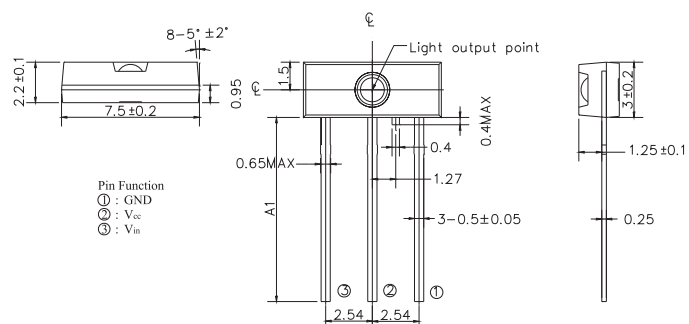


Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT262	5.6x3.1x2.3	-14	-21	3~5	None	25	0.25

Optic-Fiber Device (Photo Link) ■ Transmitter (PLT) Component



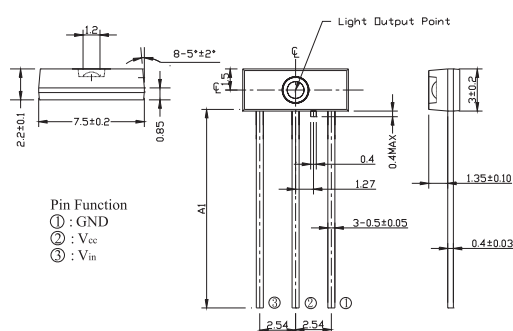
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLT137	7.5x3x2.2	-15	-21	3~5	None	16	0.25
PLT237	7.5x3x2.2	-14	-21	3~5	None	25	0.25



UNIT : mm



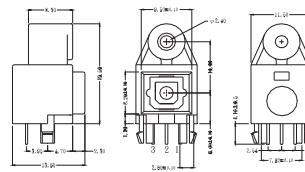
Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLT232/L5	7.5x3x2.2	-15	-21	3~5	None	25	0.4

Optic-Fiber Device (Photo Link) | Transmitter (PLT) Module



UNIT : mm

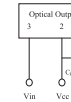
Package Dimensions



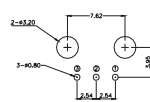
Notes: 1.All dimensions are in millimeters.
2.General Tolerance: ±0.3mm

Pin Function: 1.GND
2.Vcc
3.Vin

Using Method



PCB Layout for Electrical Circuit



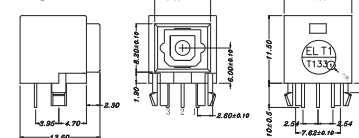
Notes:
1. unit:mm
2.Dimension Tolerance:±0.25mm
3.Substrate Thickness:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT133/T	11.5x13.6x19.5	-15	-21	3~5	Yes	16	0.4



UNIT : mm

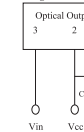
Package Dimensions



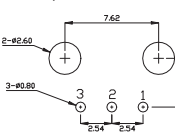
Notes: 1.All dimensions are in millimeters.
2.General Tolerance: ±0.3mm

Pin Function: 1.GND
2.Vcc
3.Vin

Using Method



PCB Layout for Electrical Circuit



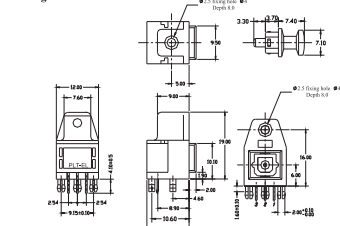
Notes:
1. unit:mm
Dimension Tolerance:±0.25mm
Substrate Thickness:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT133/T1	11.5x13.6x11.5	-15	-21	3~5	Yes	16	0.4



UNIT : mm

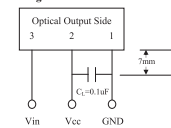
Package Dimensions



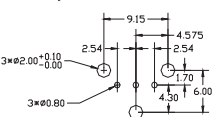
Notes: 1.All dimensions are in millimeters.
2.General Tolerance: ±0.3mm

Pin Function: 1.GND
2.Vcc
3.Vin

Using Method



PCB Layout for Electrical Circuit

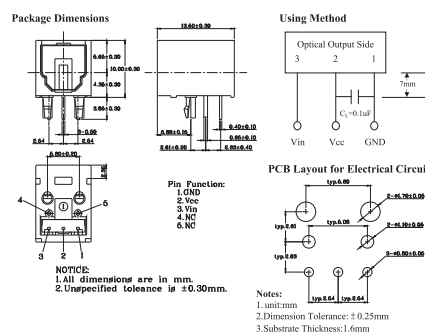


Notes:
1. unit:mm
2.Dimension Tolerance:±0.25mm
3.Substrate Thickness:1.6mm

Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thickness (mm)
PLT133/T2	12x14x19	-15	-21	3~5	Yes	16	0.4



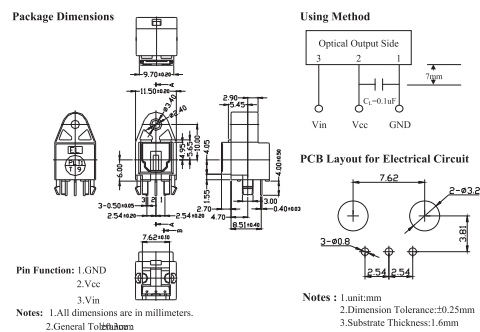
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLT133/T8B	9.7x13.5x10	-15	-21	3~5	Yes	16	0.4



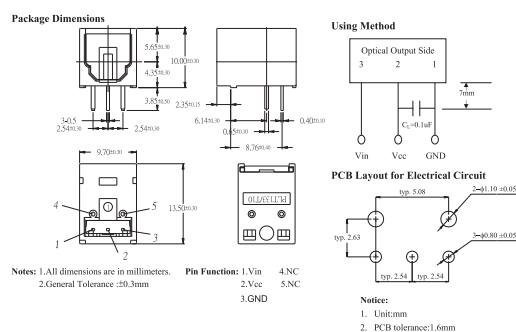
UNIT : mm



Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLT133/T9	11.5x13.7x20	-15	-21	3~5	Yes	16	0.4



UNIT : mm

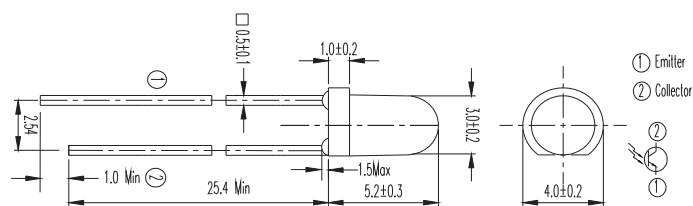


Product	Size (LxWxHmm)	Fiber Coupling Output Power_Max (dBm)	Fiber Coupling Output Power_Min (dBm)	Operation Voltage (V)	Plastic Holder	Trans - mission Speed (Mb/s)	L/F Thicknes (mm)
PLT133/T10W	9.7x13.5x10	-15	-21	3~5	Yes	16	0.4

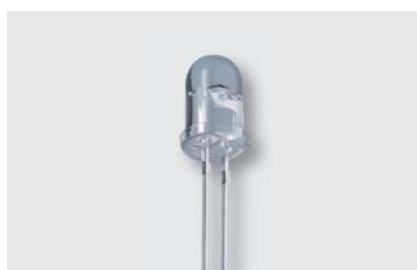
Optical Sensors | Ambient Light Sensor | Analog



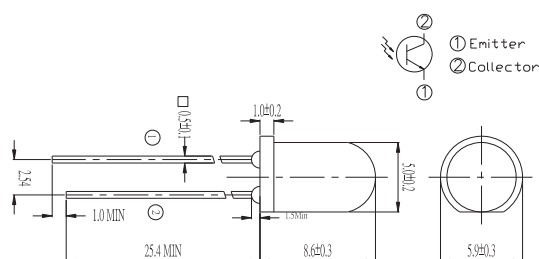
UNIT : mm



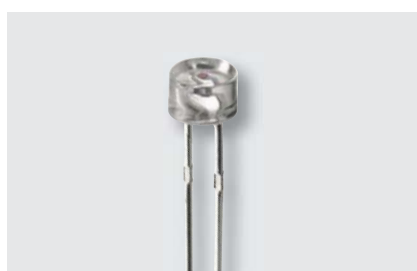
Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT204-6C/L177	3	2.5~5.5	630	370~670	15~150	0.1	110 / 220



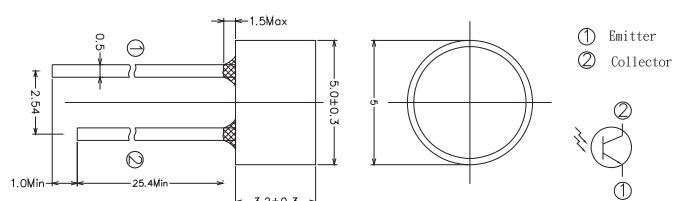
UNIT : mm



Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT333-3C/L177	5	2.5~5.5	560	390~700	90~160	0.1	80 / 90



UNIT : mm

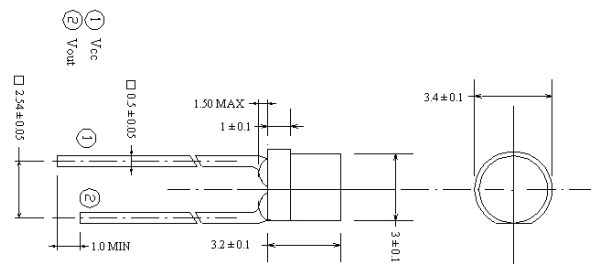


Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT243-3C/L177	5	2.5~5.5	630	390~700	10	0.1	110 / 220

Optical Sensors | Ambient Light Sensor | Analog



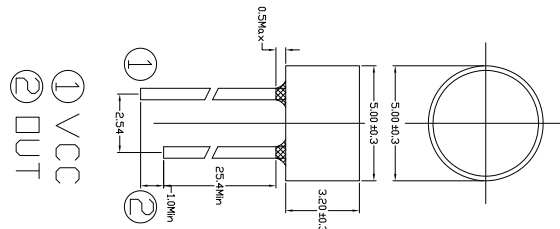
UNIT : mm



Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PDIC144-6C/L378	3	1.8~5.5	550	390~700	33	0.1	360 / 1130



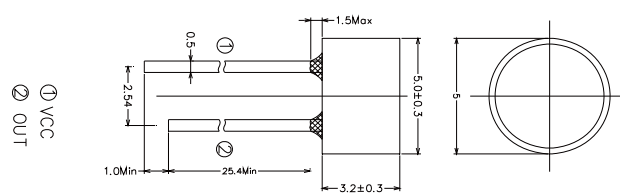
UNIT : mm



Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PDIC243-3B	5	1.8~5.5	560	390~700	10~35	0.1	360 / 1130



UNIT : mm

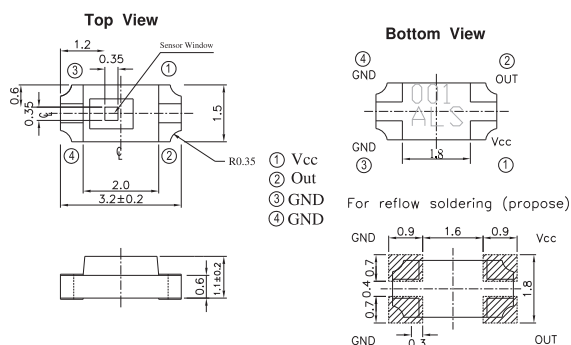


Product	Size (mm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=100\text{lux}$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PDIC243-3C	5	1.8~5.5	560	390~700	24~48	0.1	360 / 1130

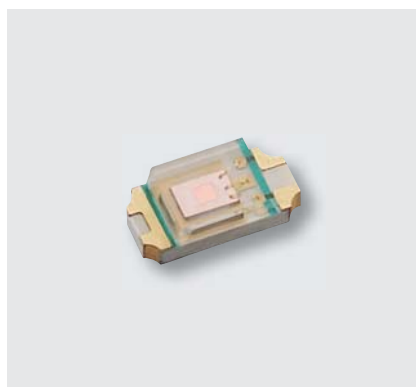
Optical Sensors | Ambient Light Sensor | Analog



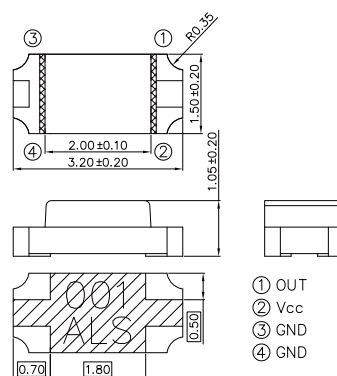
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) Ev=100lux	I _{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PDIC15-21B/TR8	3.2x1.5x1.1	1.8~5.5	550	390~700	7.5	0.1	11 / 400



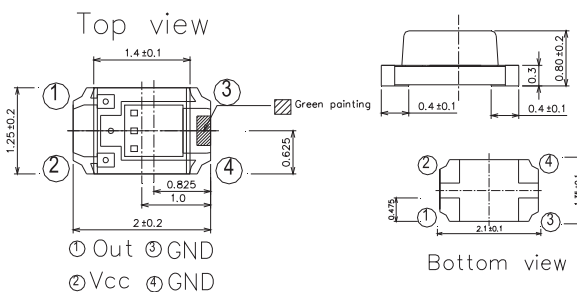
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) Ev=100lux	I _{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PDIC15-21C/L230/TR8	3.2x1.5x1.1	2.5~5.5	590	360~950	36~95	0.1	356 / 1110

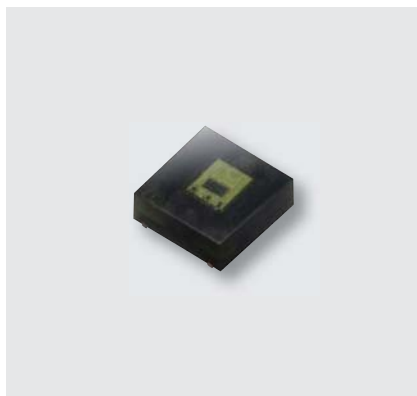


UNIT : mm

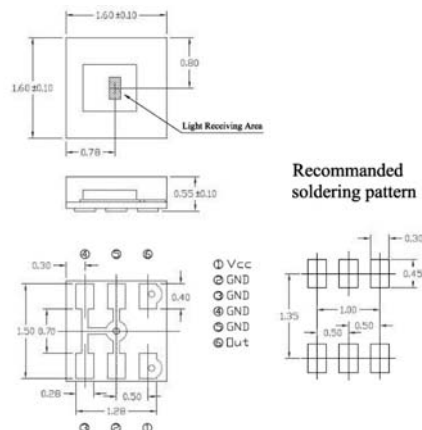


Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) Ev=100lux	I _{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PDIC17-55C/TR8	2x1.25x0.8	1.8~5.5	590	390~700	27~54	0.1	360 / 1130

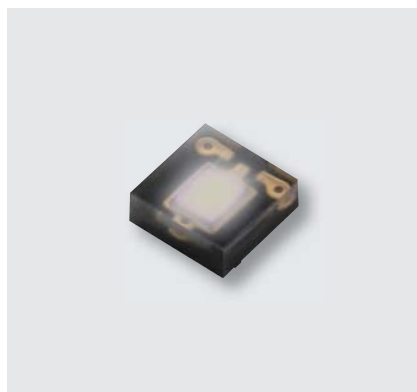
Optical Sensors | Ambient Light Sensor | Analog



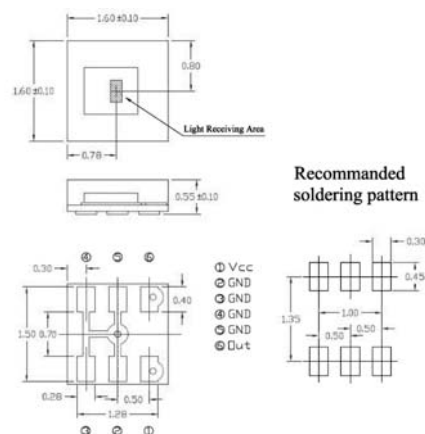
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PDIC17-77B/TR8	1.6x1.6x0.55	1.8~5.5	580	390~700	60	0.1	75 / 200



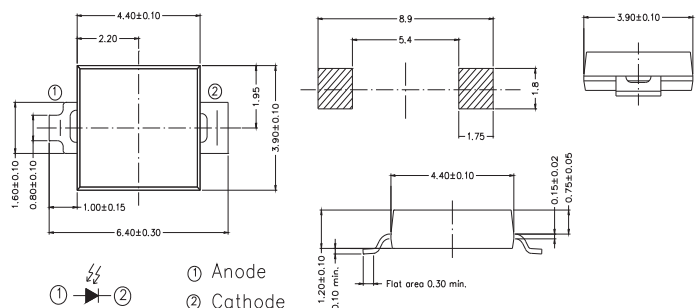
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PDIC17-77C/TR8	1.6x1.6x0.55	1.8~5.5	550	390~700	40	0.1	11 / 400

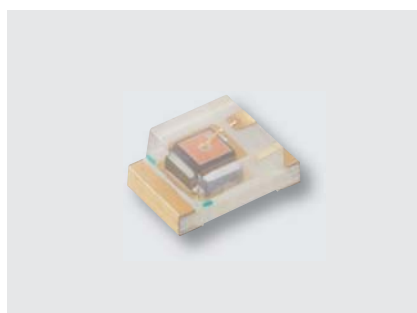


UNIT : mm

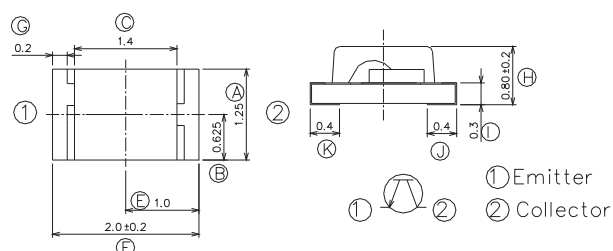


Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (uA) $E_v=100\text{lux}$	I_{D_Max} (uA)	Rise / Fall Time (μs)
ALS-PD70-01C/TR7	4.4x3.9x1.2	2.5~5.5	630	390~700	1.1	0.01	-- / --

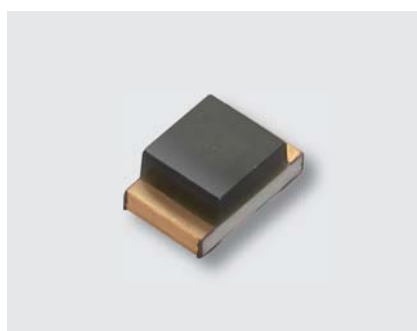
Optical Sensors | Ambient Light Sensor | Analog



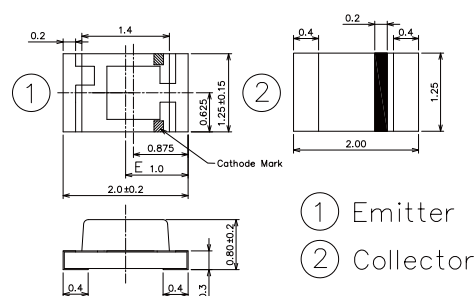
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=100lux$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT17-51C/L177/TR8	2x1.25x0.8	2.5~5.5	630	390~700	15	0.1	110 / 220



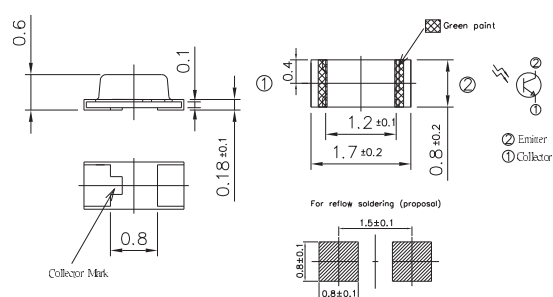
UNIT : mm



Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=50lux$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT17-51NB/L369/TR8	2x1.25x0.8	1.8~5.5	580	400~700	5.5	0.1	130 / 150



UNIT : mm

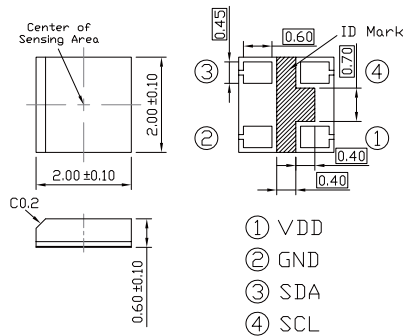


Product	Size (LxWxHmm)	Supply Voltage (V)	Sensitivity λ_p (nm)	Range λ (nm)	Light current (μA) $E_v=100lux$	I_{D_Max} (μA)	Rise / Fall Time (μs)
ALS-PT19-315C/L177/TR8	1.7x0.8x0.6	2.5~5.5	630	390~700	15	0.1	110 / 220

Optical Sensors | Ambient Light Sensor | Digital



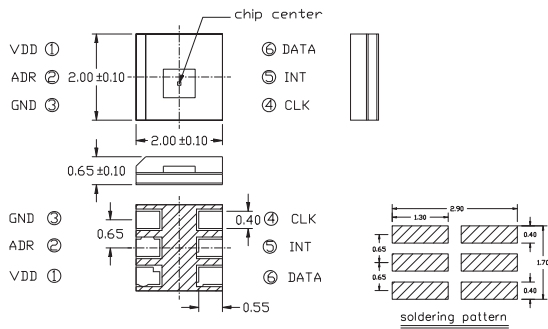
UNIT : mm



Product	Size (LxWxHmm)	Resolution (bit)	Interface	Peak sensitivity (nm)	Detection range (lux)
ALS-PDIC17-57B/TR8	2x2x0.55	15	I ² C	580	88,000



UNIT : mm

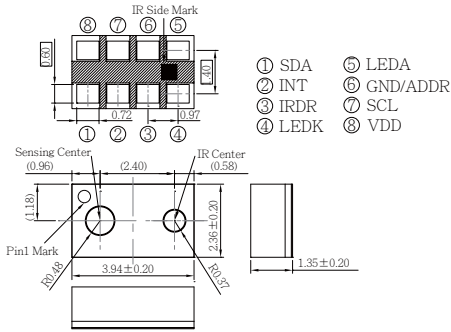


Product	Size (LxWxHmm)	Resolution (bit)	Interface	Peak sensitivity (nm)	Detection range (lux)
ALS-PDIC17-79NB/TR8	2x2x0.65	15	I ² C	550	88,000

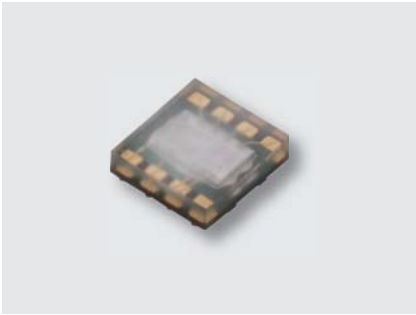
Optical Sensors | Proximity Sensor | Digital



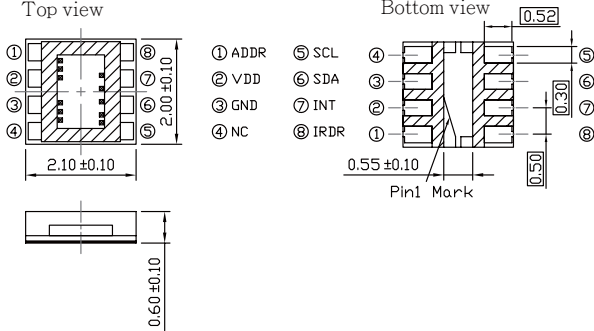
UNIT : mm



Product	Size (LxWxHmm)	Resolution (bit)	Interface	Ambient Light Detection range (lux)	IR LED Driving current (mA)
APM-16D25-10-DF8/TR8	3.94x2.36x1.35	16 / 8	I ² C	0.44~57671	100 / 200

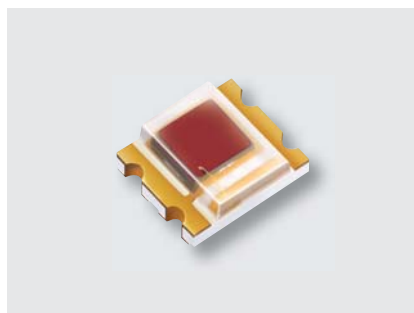


UNIT : mm

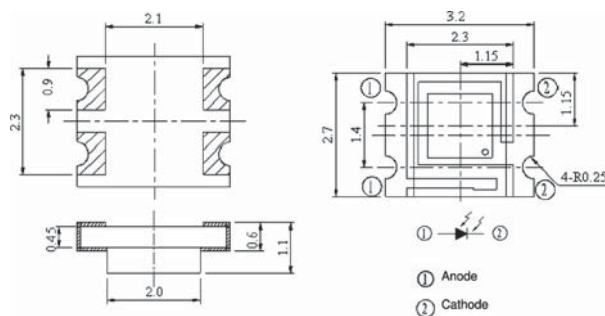


Product	Size (LxWxHmm)	Resolution (bit)	Interface	Ambient Light Detection range (lux)	IR LED Driving current (mA)
APS-16D25-11-DF8/TR8	2.1x2x0.6	16 / 8	I ² C	0.11~57671	100 / 200

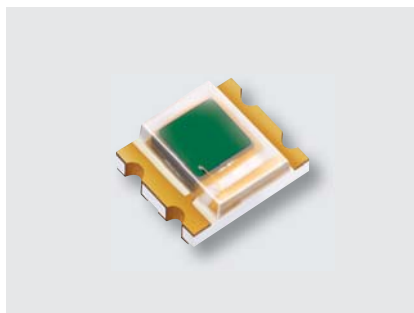
Optical Sensors ■ RGB Color Sensor ■ Single Color Sensor (Analog)



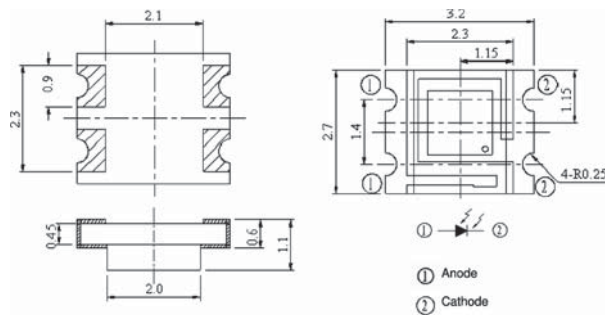
UNIT : mm



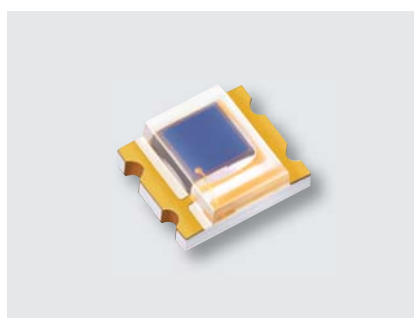
Product	Size (LxWxHmm)	Sensitivity λ_p (nm)	V_F (V)	Revers light current ($E_e=100\text{lux}$) / $IL^{(1)}$ (μA)	Revers light current ($E_e=1000\text{lux}$) $IL^{(2)}$ (μA)
CLS15-22C/L213R/TR8	3.2x2.7x1.1	620	0.5~1.3	0.091	0.83



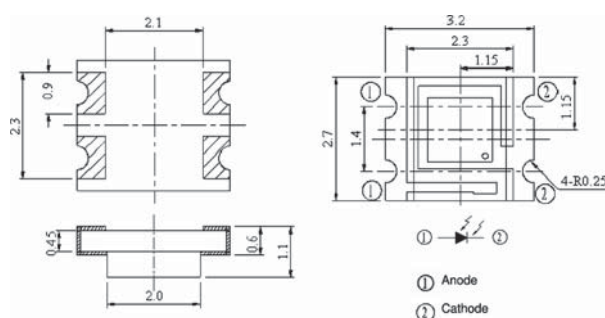
UNIT : mm



Product	Size (LxWxHmm)	Sensitivity λ_p (nm)	V_F (V)	Revers light current ($E_e=100\text{lux}$) / $IL^{(1)}$ (μA)	Revers light current ($E_e=1000\text{lux}$) $IL^{(2)}$ (μA)
CLS15-22C/L213G/TR8	3.2x2.7x1.1	550	0.5~1.3	0.082	0.72



UNIT : mm

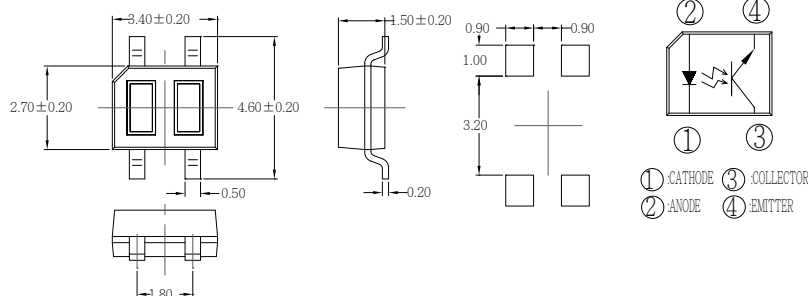


Product	Size (LxWxHmm)	Sensitivity λ_p (nm)	V_F (V)	Revers light current ($E_e=100\text{lux}$) / $IL^{(1)}$ (μA)	Revers light current ($E_e=1000\text{lux}$) $IL^{(2)}$ (μA)
CLS15-22C/L213B/TR8	3.2x2.7x1.1	470	0.5~1.3	0.046	0.39

Optical Sensors | Reflective Sensor



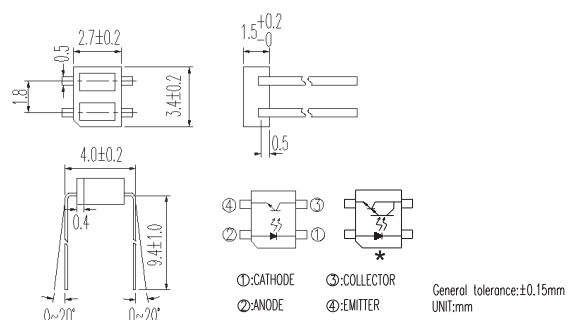
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR1201SR10A/TR	3.4x2.7x1.5	1.2	1.4	0.4	0.3	100



UNIT : mm

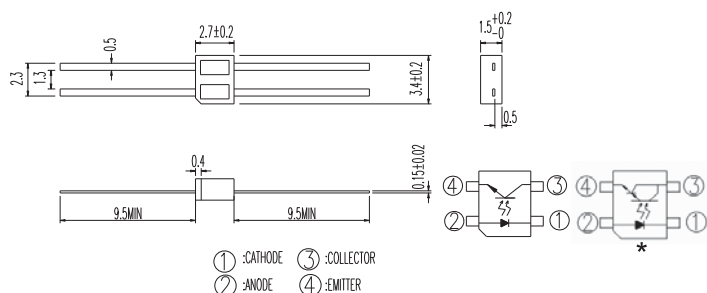


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8307/F43	3.4x2.7x1.5	1.2	1.6	0.4	0.1	100
*ITR8307/L24/F43	3.4x2.7x1.5	1.2	1.4	--	0.5	1000

Star mark * : Please refer to the schematic of Pin configuration with " * " mark.



UNIT : mm



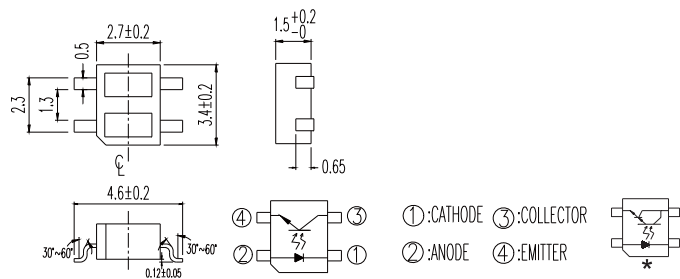
Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR8307	3.4x2.7x1.5	1.2	1.6	0.4	0.1	100
*ITR8307/L24	3.4x2.7x1.5	1.2	1.4	--	0.5	1000

Star mark * : Please refer to the schematic of Pin configuration with " * " mark.

Optical Sensors | Reflective Sensor



UNIT : mm

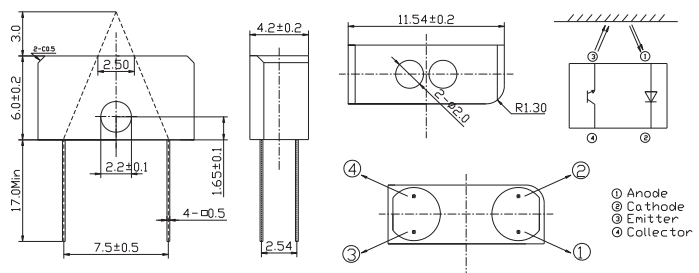


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
*ITR8307/L24/TR8	3.4x2.7x1.5	1.2	1.4	--	0.5	1000
ITR8307/TR8	3.4x2.7x1.5	1.2	1.6	0.4	0.1	100

Star mark *: Please refer to the schematic of Pin configuration with " * " mark.



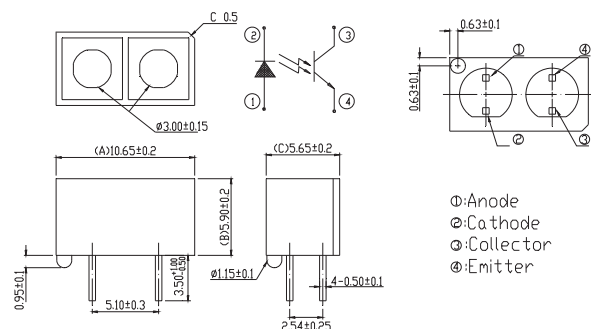
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9904	11.54x4.2x6	1.2	1.5	0.4	0.1	100



UNIT : mm

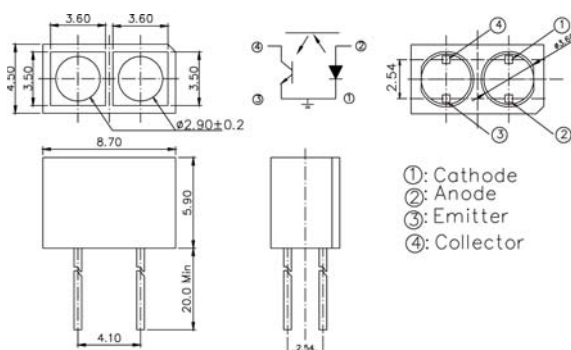


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9908	10.65x5.65x5.9	1.2	1.5	0.4	0.5	100

Optical Sensors | Reflective Sensor



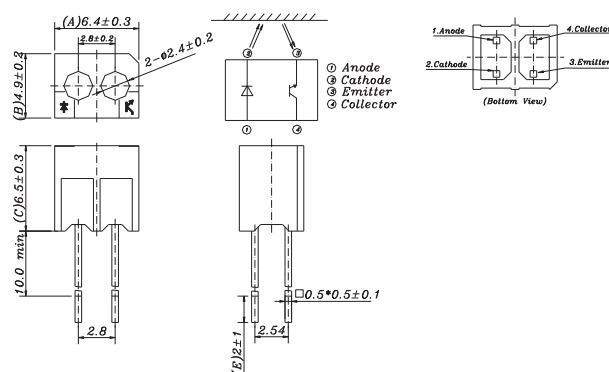
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR9909	8.7x4.5x5.9	1.2	1.5	0.4	0.2	100



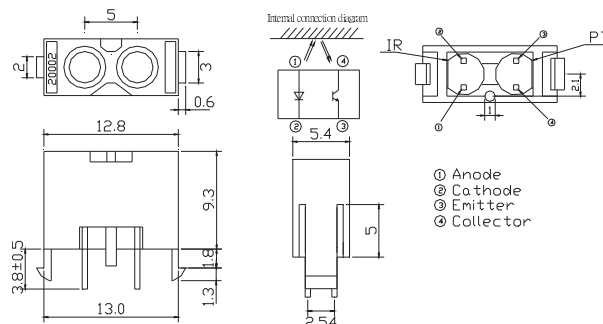
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20001/T	6.4x4.9x6.5	1.2	1.5	0.4	0.2	100



UNIT : mm

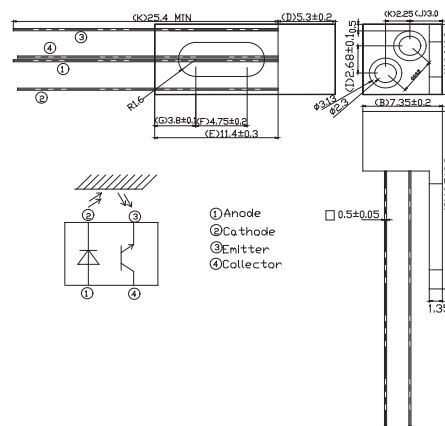


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20002	12.8x5.5x9.3	1.2	1.5	0.4	0.2	100

Optical Sensors | Reflective Sensor



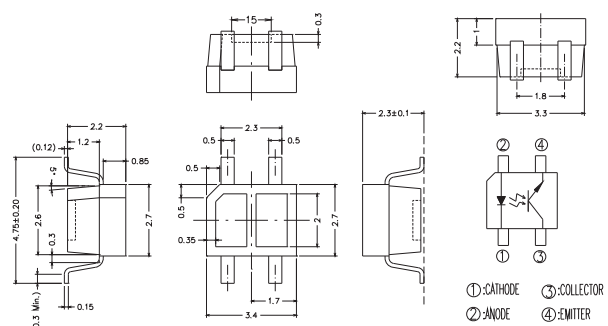
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20501	7.35x6.6x5.3	1.2	1.5	0.4	0.02	100



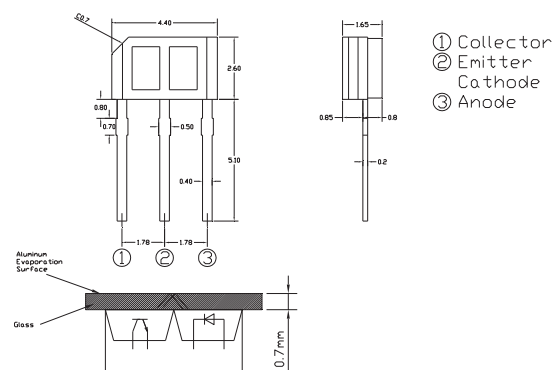
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20510/TR8	3.4x2.7x2.2	1.2	1.6	0.4	0.1	100



UNIT : mm

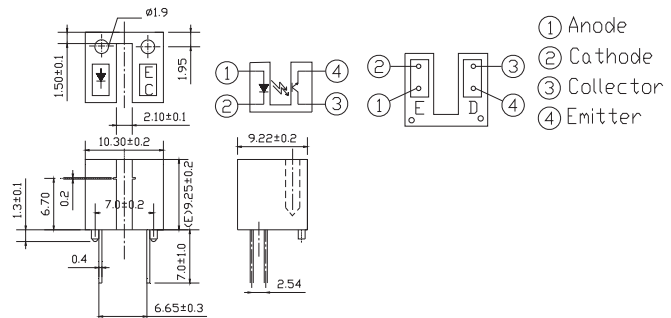


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)
ITR20904	4.4x2.6x1.65	--	1.4	--	0.05	200

Optical Sensors | Transmissive Sensor



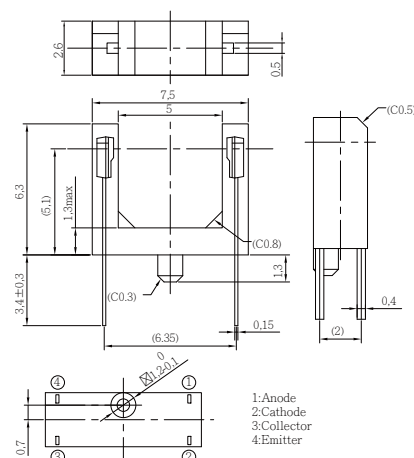
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR8010	10.3x9.22x9.25	1.2	1.5	0.4	0.9	100	2.1



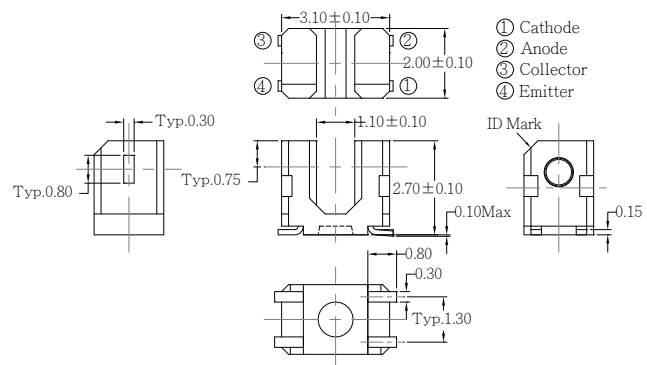
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR1203DT50A/TB	7.5x2.6x6.3	1.18	1.4	0.4	0.25	100	5



UNIT : mm

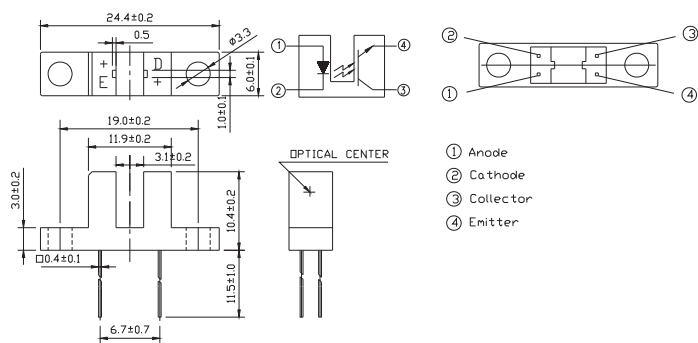


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR1205ST11A/TR	3.1x2x2.7	1.2	1.4	0.4	0.15	100	1.1

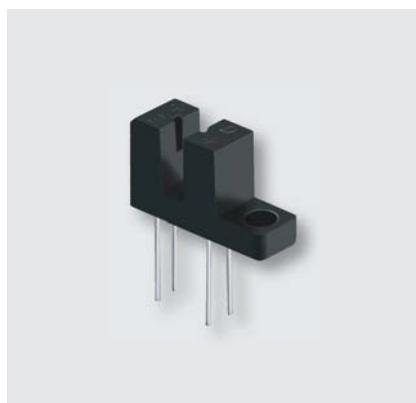
Optical Sensors | Transmissive Sensor



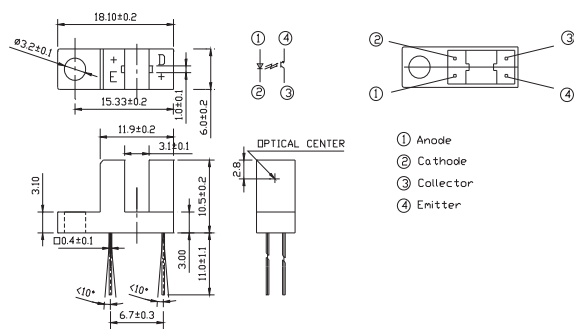
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR8102	24.4x6x10.4	1.2	1.5	0.4	0.9	100	3

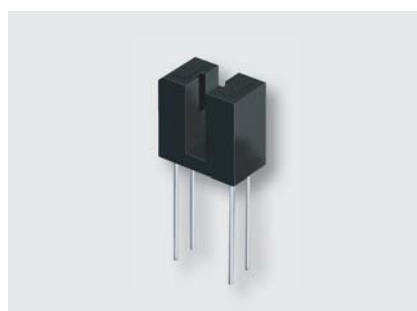


UNIT : mm

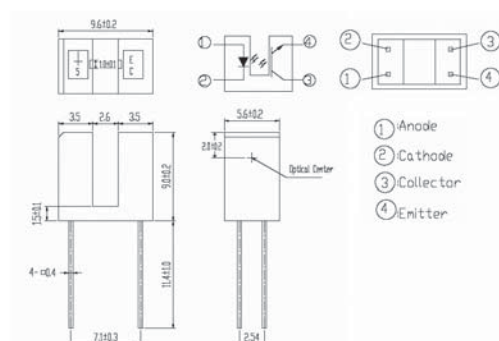


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR8104	18.1x6x10.5	1.2	1.5	0.4	0.9	100	3

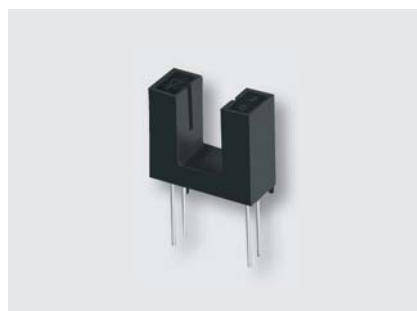
Optical Sensors | Transmissive Sensor



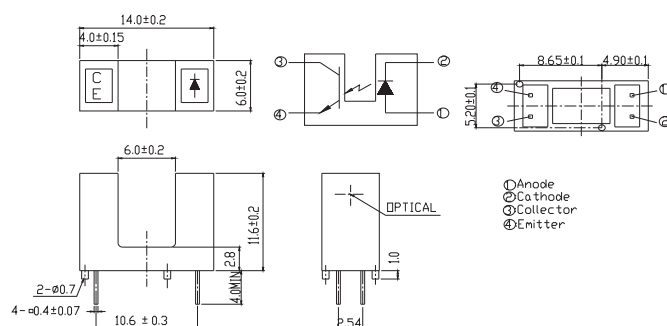
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR8105	9.6x5.6x9	1.2	1.6	0.4	1	100	2.6



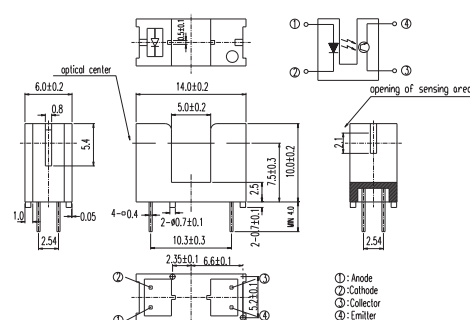
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR8402-F-A	14.0x6x11.6	1.2	1.5	0.4	0.5	100	6



UNIT : mm

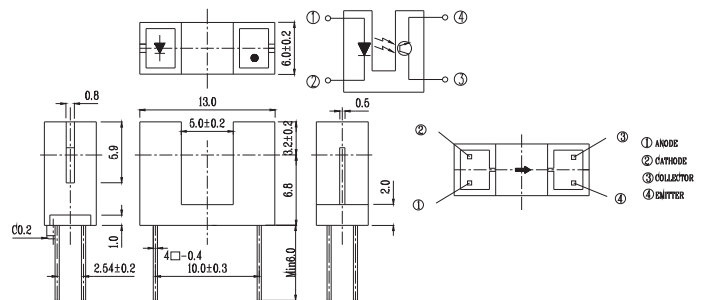


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9606-F	14x6x10	1.2	1.5	0.4	0.5	100	5

Optical Sensors | Transmissive Sensor



UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9608-F	13x6x10	1.2	1.5	0.4	0.5	100	5



UNIT : mm

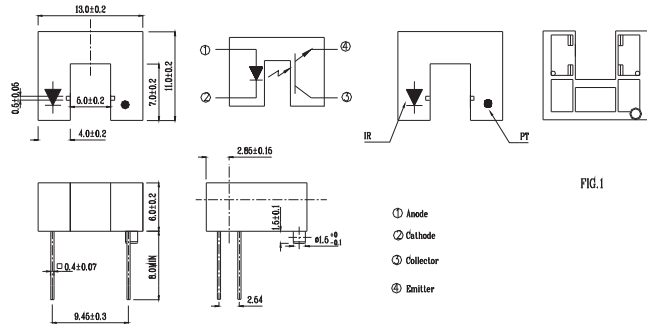
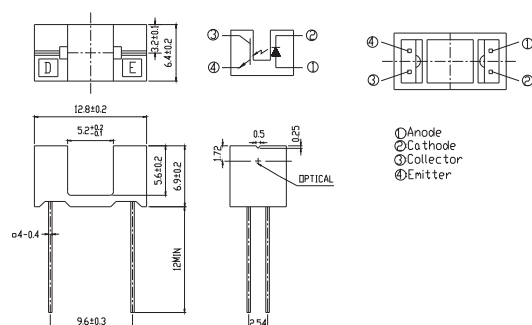


FIG.1

Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9702-F	13x11x6	1.2	1.5	0.4	0.5	100	4



UNIT : mm

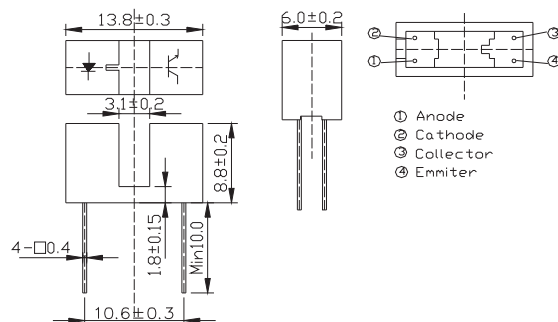


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9707	12.8x6.4x6.9	1.2	1.5	0.4	0.5	100	5.2

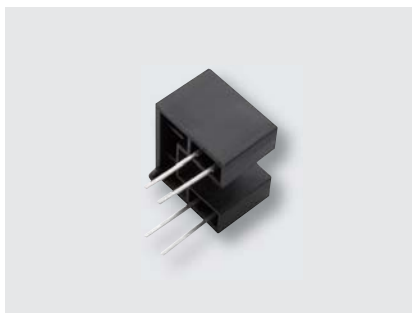
Optical Sensors | Transmissive Sensor



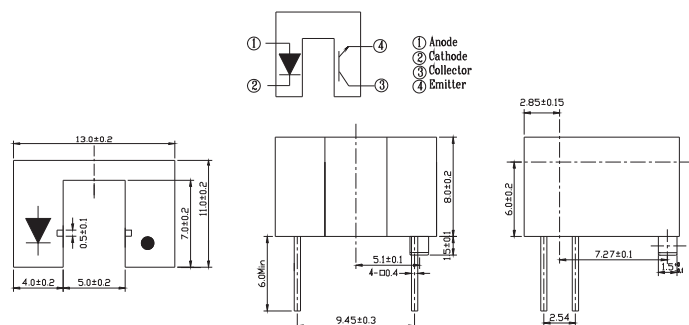
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9803	13.8x6x8.8	1.2	1.6	0.4	0.5	100	3.1



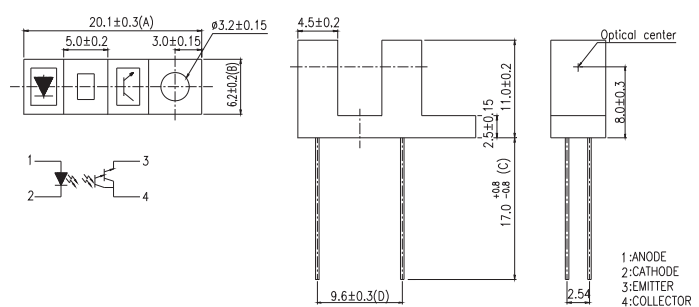
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9809-F/T	11.54x4.2x6	1.2	1.5	0.4	1	100	5

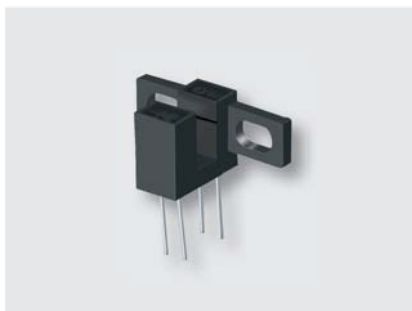


UNIT : mm

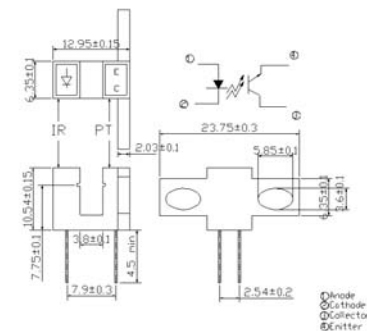


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR9813	20.1x6.2x11	1.2	1.5	0.4	0.5	100	5

Optical Sensors | Transmissive Sensor



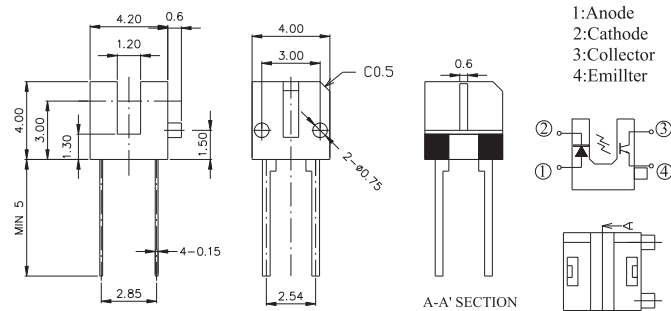
UNIT : mm



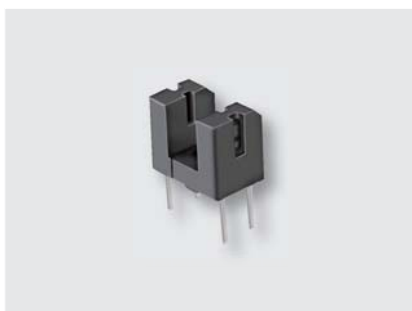
Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR20005-F	23.7x6.3x10.5	1.2	1.5	0.4	0.6	100	3.8



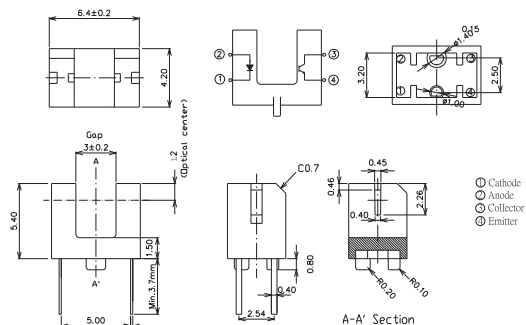
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR20402	4.2x4x4	1.2	1.6	0.4	0.3	100	1.2



UNIT : mm

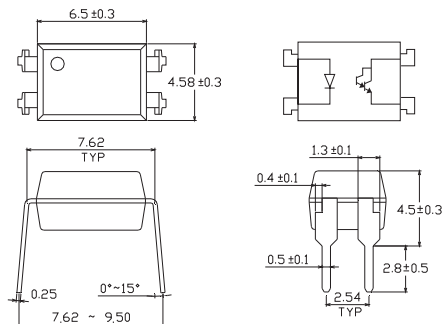


Product	Size (LxWxHmm)	V _{F_Typ} (V)	V _{F_Max} (V)	V _{CE(SAT)_Max} (V)	I _{C(ON)_Min} (mA)	I _{CEO_Max.} (nA)	Gap Distance (mm)
ITR20403	6.4x4.2x5.4	1.2	1.6	0.4	0.2	100	3

Photo Coupler I Darlington Transistor I 4Pin DIP-DC



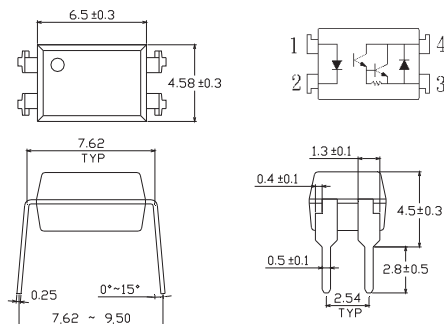
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL815	6.5x4.58x3.5	1.2	60 / 53	35	600~7500	5000	1

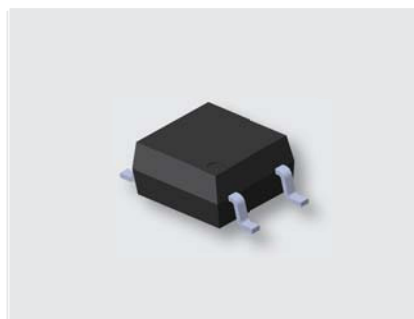


UNIT : mm

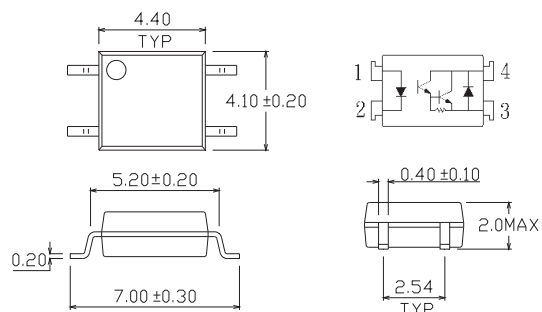


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL852	6.5x4.58x3.5	1.2	300 / 100	350	1000~15000	5000	1.2

Photo Coupler I Darlington Transistor I 4Pin SOP-DC



UNIT : mm

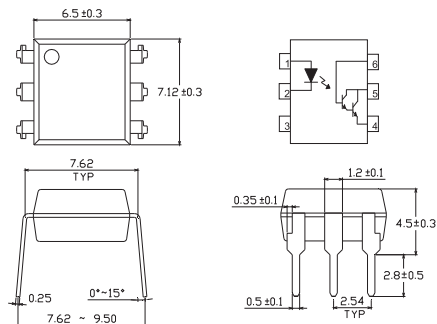


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL452-G	4.4x4.1x2	1.2	300 / 100	350	1000 min.	3750	1.5

Photo Coupler ■ Darlington Transistor ■ 6Pin DIP-DC

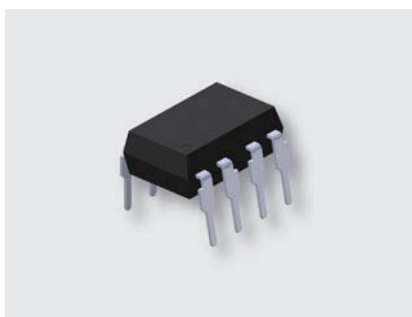


UNIT : mm

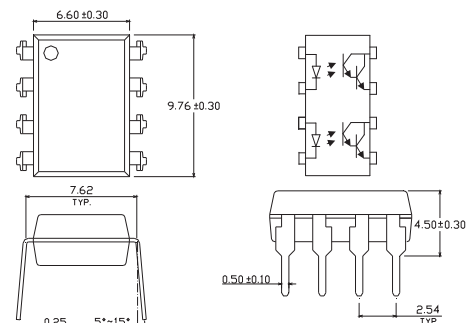


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
4N29	7.12x6.5x3.5	1.2	5 / 40	55	100 min.	5000	1
4N30	7.12x6.5x3.5	1.2	5 / 40	55	100 min.	5000	1
4N31	7.12x6.5x3.5	1.2	5 / 40	55	50 min.	5000	1.2
4N32	7.12x6.5x3.5	1.2	5 / 100	55	500 min.	5000	1
4N33	7.12x6.5x3.5	1.2	5 / 100	55	500 min.	5000	1
H11B1	7.12x6.5x3.5	1.2	25 / 18	55	500 min.	5000	1
H11B2	7.12x6.5x3.5	1.2	25 / 18	55	200 min.	5000	1
H11B3	7.12x6.5x3.5	1.2	25 / 18	55	100 min.	5000	1
H11B255	7.12x6.5x3.5	1.2	25 / 18	55	100 min.	5000	1
TIL113	7.12x6.5x3.5	1.2	5 / 100	55	300 min.	5000	1.2

Photo Coupler ■ Darlington Transistor ■ 8Pin DIP-DC

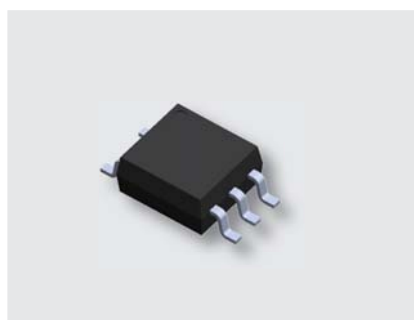


UNIT : mm

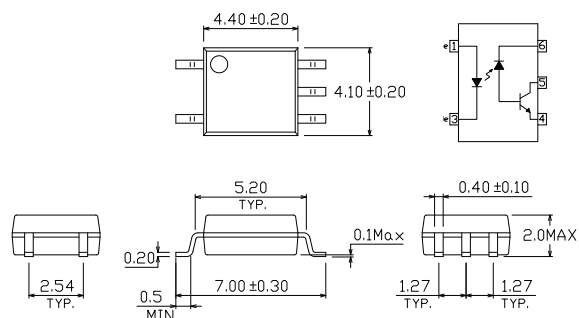


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL825	9.76x6.6x3.5	1.2	60 / 53	40	600~7500	5000	1

Photo Coupler ■ High Speed ■ 5Pin SOP



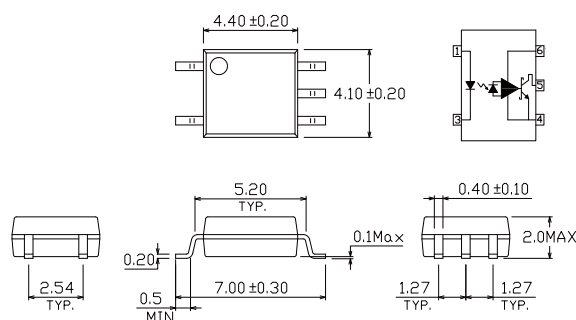
UNIT : mm



Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
ELM452	4.4×4.1×2	800 / 800	30 max.	20~50	3750	5000	8 max.
ELM453	4.4×4.1×2	800 / 800	30 max.	20~50	3750	15000	8 max.

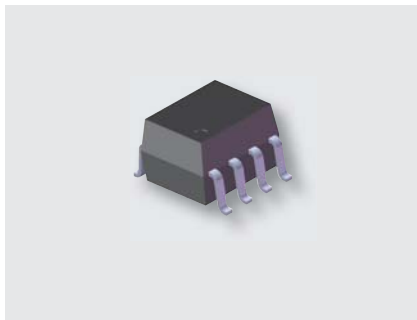


UNIT : mm

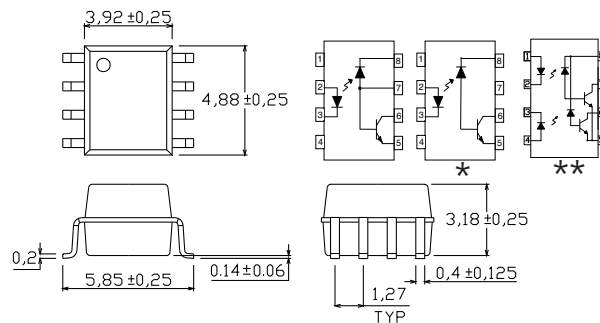


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
ELM600	4.4×4.1×2	100 / 100	7 max.	-	3750	-	50 max.
ELM601	4.4×4.1×2	100 / 100	7 max.	-	3750	5000	50 max.
ELM611	4.4×4.1×2	100 / 100	7 max.	-	3750	20000	50 max.

Photo Coupler ■ High Speed ■ 8Pin SOP

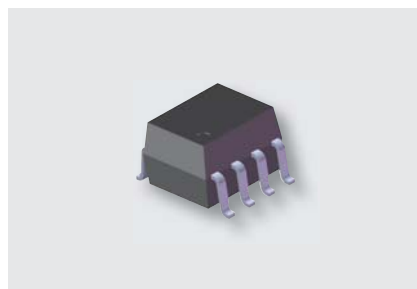


UNIT : mm

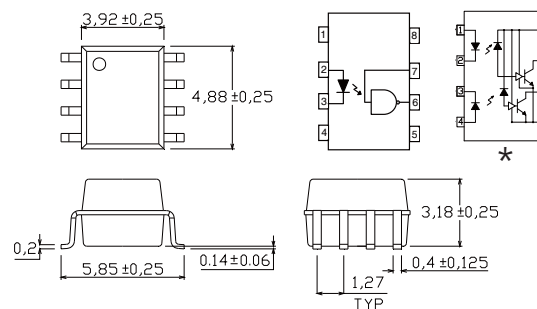


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
*EL0452	4.88x3.92x3.18	1000 / 1000	30 max.	19~50	3750	1000	8 max.
*EL0453	4.88x3.92x3.18	1000 / 1000	30 max.	19~50	3750	15000	8 max.
EL0500	4.88x3.92x3.18	2000 / 2000	30 max.	7~50	3750	1000	8 max.
EL0501	4.88x3.92x3.18	1000 / 1000	30 max.	19~50	3750	1000	8 max.
**EL0530	4.88x3.92x3.18	2000 / 2000	30 max.	7~50	3750	1000	8 max.
**EL0531	4.88x3.92x3.18	1000 / 1000	30 max.	19~50	3750	1000	8 max.

Star mark * : Please refer to the schematic of Pin configuration with " * " " * " mark



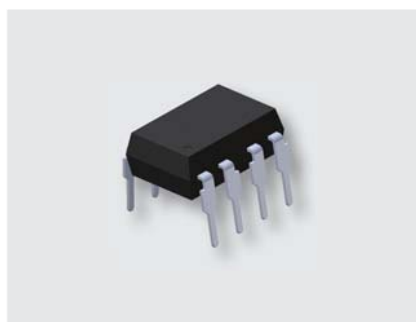
UNIT : mm



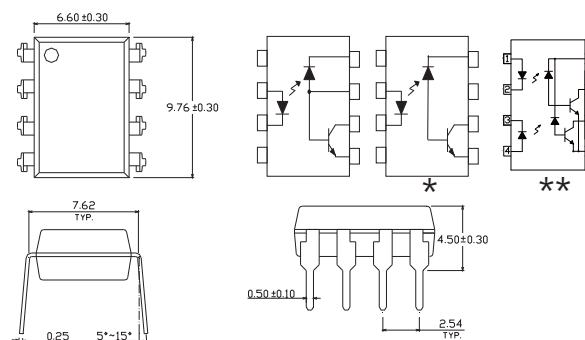
Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
EL0600	4.88x3.92x3.18	75 / 75	7 max.	--	3750	--	50 max.
EL0601	4.88x3.92x3.18	75 / 75	7 max.	--	3750	5000	50 max.
EL0611	4.88x3.92x3.18	75 / 75	7 max.	-	3750	10000	50 max.
*EL0630	4.88x3.92x3.18	100 / 100	7 max.	-	3750	5000	50 max.
*EL0631	4.88x3.92x3.18	100 / 100	7 max.	-	3750	10000	50 max.

Star mark * : Please refer to the schematic of Pin configuration with " * " mark

Photo Coupler ■ High Speed ■ 8Pin DIP



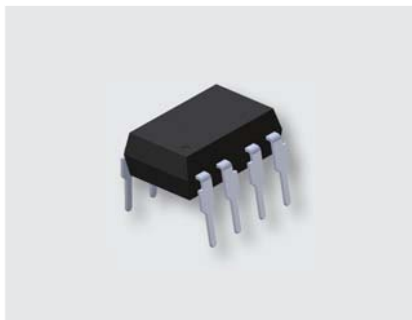
UNIT : mm



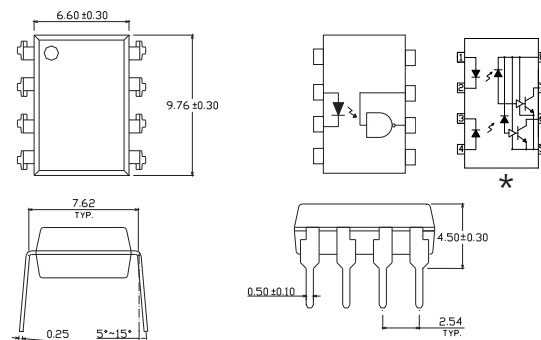
Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
6N135	9.76x6.6x3.5	2000 / 2000	30 max.	7~50	5000	1000	8 max.
6N136	9.76x6.6x3.5	1000 / 1000	30 max.	19~50	5000	1000	8 max.
**EL2530	9.76x6.6x3.5	2000 / 2000	30 max.	7~50	5000	1000	8 max.
**EL2531	9.76x6.6x3.5	1000 / 1000	30 max.	19~50	5000	1000	8 max.
*EL4502	9.76x6.6x3.5	1000 / 1000	30 max.	19~50	5000	1000	8 max.
*EL4503	9.76x6.6x3.5	1000 / 1000	30 max.	19~50	5000	15000	8 max.
*EL4504	9.76x6.6x3.5	400 / 400	30 max.	25~60	5000	15000	8 max.

Star mark * : Please refer to the schematic of Pin configuration with " * " " ** " mark

Photo Coupler ■ High Speed ■ 8Pin DIP

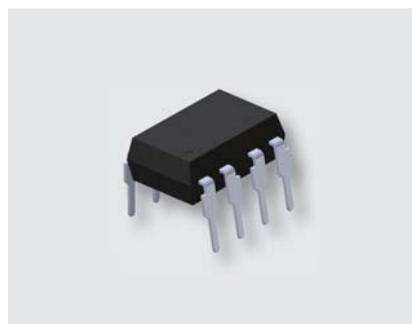


UNIT : mm

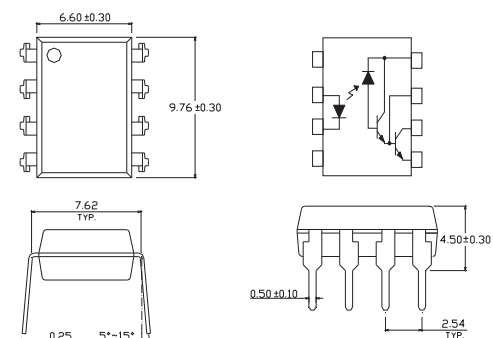


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
6N137	9.76x6.6x3.5	75 / 75	7 max.	-	5000	-	50 max.
EL2601	9.76x6.6x3.5	75 / 75	7 max.	-	5000	5000	50 max.
EL2611	9.76x6.6x3.5	75 / 75	7 max.	-	5000	10000	50 max.
*EL2630	9.76x6.6x3.5	100 / 100	7 max.	-	5000	5000	50 max.
*EL2631	9.76x6.6x3.5	100 / 100	7 max.	-	5000	10000	50 max.

Star mark * : Please refer to the schematic of Pin configuration with " * " mark



UNIT : mm

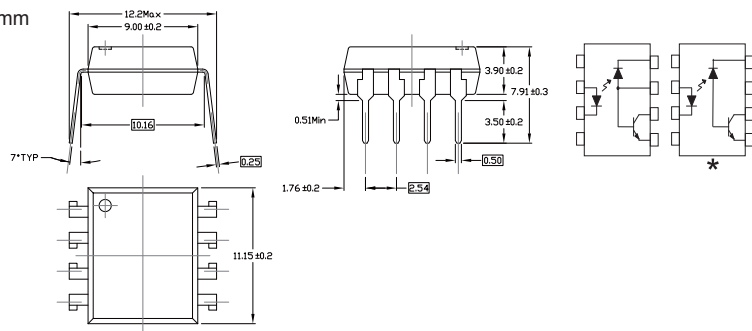


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
6N138	9.76x6.6x3.5	15000 / 50000	7 max.	300 min.	5000	1000	60 max.
6N139	9.76x6.6x3.5	30000 / 90000	18 max.	500 min.	5000	1000	60 max.

Photo Coupler ■ High Speed ■ 8Pin Wide Body DIP



UNIT : mm

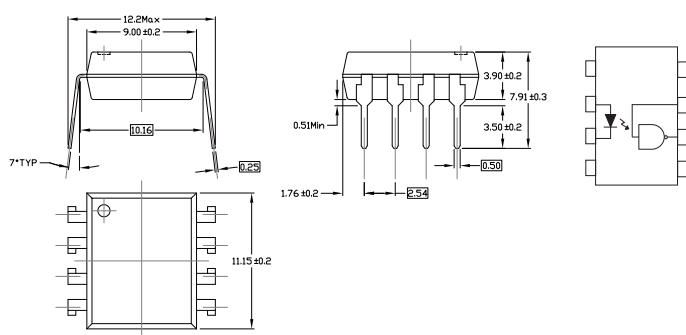


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
ELW135	11.15×9×3.9	2000 / 2000	30 max.	7~50	5000	1000	8 max.
ELW136	11.15×9×3.9	1000 / 1000	30 max.	19~50	5000	1000	8 max.
*ELW4503	11.15×9×3.9	1000 / 1000	30 max.	19~50	5000	15000	8 max.

Star mark * : Please refer to the schematic of Pin configuration with " ★ " mark



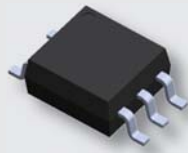
UNIT : mm



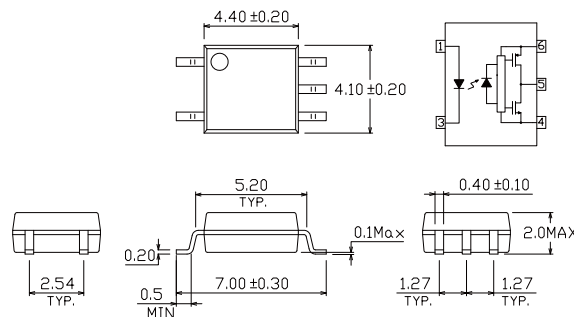
Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Supply Voltage (V)	CTR (%)	Viso (V _{rms})	CMR (V/us)	I _O (mA)
ELW137	11.15×9×3.9	100 / 100	7 max.	-	5000	-	50 max.
ELW2601	11.15×9×3.9	100 / 100	7 max.	-	5000	5000	50 max.
ELW2611	11.15×9×3.9	100 / 100	7 max.	-	5000	10000	50 max.

Photo Coupler ■ IGBT/MOSFET Get Driver ■ 5Pin SOP

PRELIMINARY



UNIT : mm

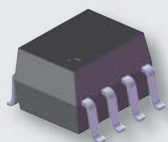


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Vcc (V)	Viso (V _{rms})	CMR (V/us)	I _O (A)
ELM314	4.4×4.1×2	200 / 200	35	3750	15000	0.6

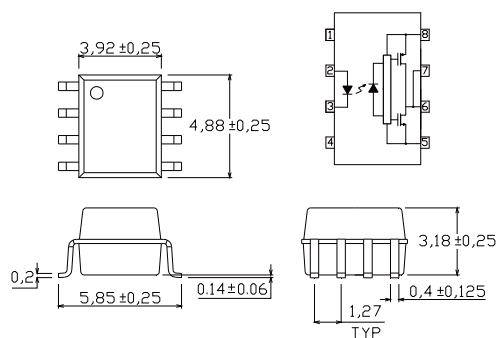
• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Photo Coupler ■ IGBT/MOSFET Get Driver ■ 8Pin SOP

PRELIMINARY



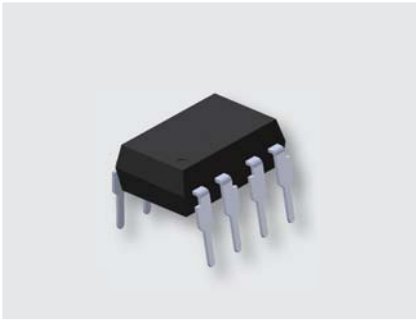
UNIT : mm



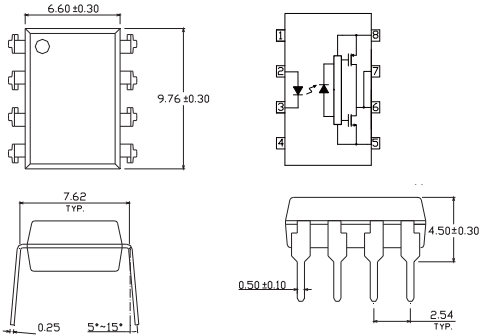
Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Vcc (V)	Viso (V _{rms})	CMR (V/us)	I _O (A)
EL0314	4.88×3.92×3.18	300 / 300	35	3750	15000	0.6

• Product Availability : Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Photo Coupler I IGBT/MOSFET Get Driver I 8Pin DIP



UNIT : mm

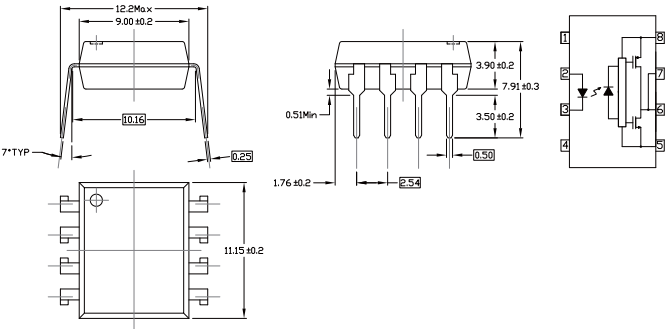


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Vcc (V)	Viso (V _{rms})	CMR (V/us)	I _O (A)
EL3120	9.76x6.6x3.5	300 / 300	35	5000	15000	2.5
EL3140	9.76x6.6x3.5	200 / 200	35	5000	15000	0.6

Photo Coupler I IGBT/MOSFET Get Driver I 8Pin Wide Body DIP



UNIT : mm

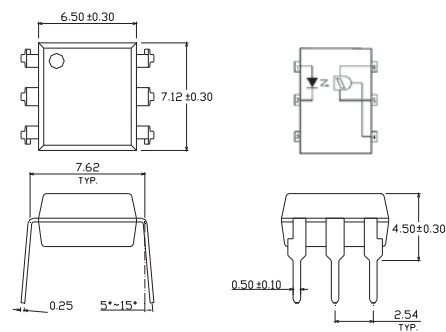


Product	Size (LxWxHmm)	tPHL / tPLH (ns)	Vcc (V)	Viso (V _{rms})	CMR (V/us)	I _O (A)
ELW3120	11.15×9×3.9	300 / 300	35	5000	20000	2.5

Photo Coupler ■ Schmitt Trigger ■ 6Pin DIP



UNIT : mm

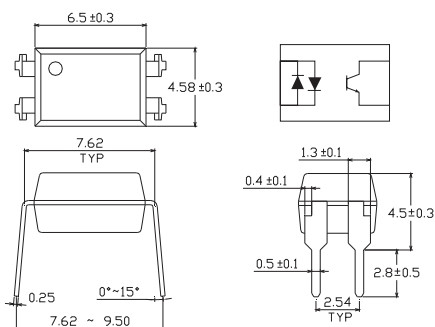


Product	Size (LxWxHmm)	Rise / Fall Time (μs)	Supply Voltage (V)	Viso (V _{rms})	I _{FT} (mA)	I _{CC_Max} (mA)	I _O (mA)
H11L1	7.12x6.5x3.5	0.1 / 0.1	3~15	5000	1.6	5	0.1

Photo Coupler ■ Transistor ■ 4Pin DIP-AC



UNIT : mm

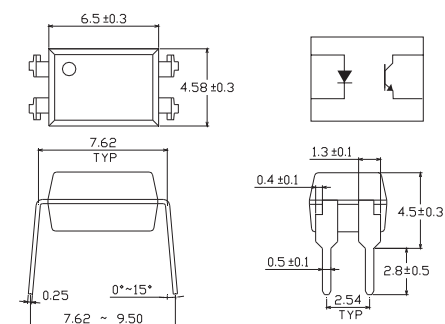


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL814	6.5x4.58x3.5	1.2	7 / 11	80	20~300	5000	0.2

Photo Coupler ■ Transistor ■ 4Pin DIP-DC



UNIT : mm

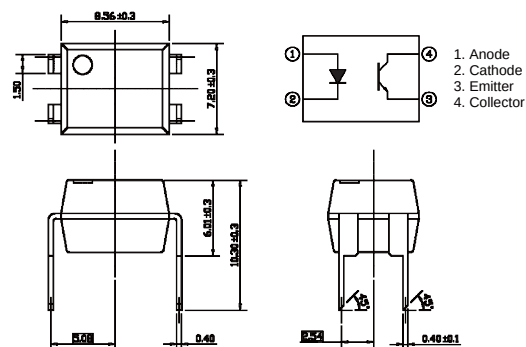


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL816	6.5x4.58x3.5	1.2	4 / 3	80	50~600	5000	0.2
EL817	6.5x4.58x3.5	1.2	4 / 3	35	50~600	5000	0.2
EL817-G	6.5x4.58x3.5	1.2	6 / 8	80	50~600	5000	0.2
EL851	6.5x4.58x3.5	1.2	4 / 5	350	50~600	5000	0.4

Photo Coupler | Transistor | 4Pin High Isolation



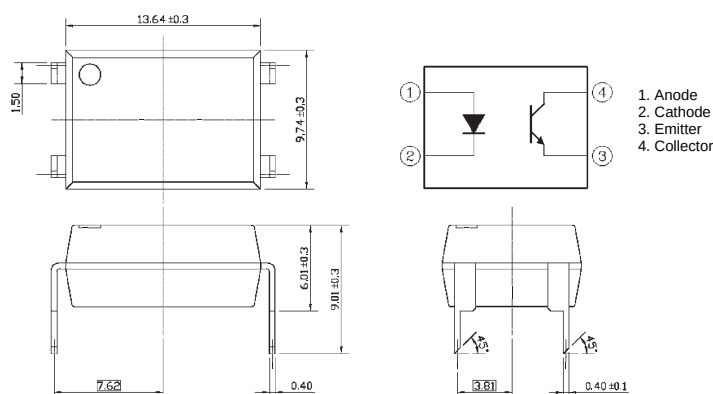
UNIT : mm



Product	Size (LxWxHmm)	V_{F_Typ} (V)	Rise / Fall Time (μ s)	BV_{CEO_Min} (V)	CTR (%)	Viso (V_{rms})	$V_{CE(SAT)_Max}$ (V)
CNY64	8.56x7.2x6.01	1.6	3 / 5	80	50~300	8200	0.3

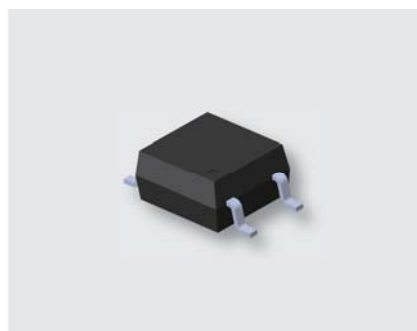


UNIT : mm

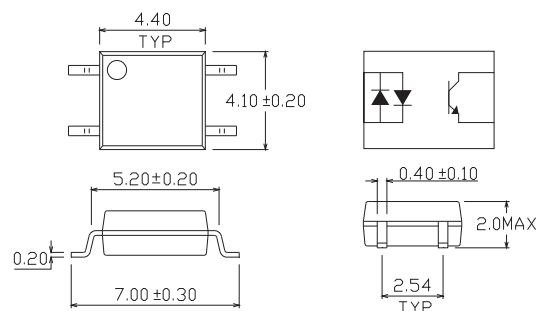


Product	Size (LxWxHmm)	V_{F_Typ} (V)	Rise / Fall Time (μ s)	BV_{CEO_Min} (V)	CTR (%)	Viso (V_{rms})	$V_{CE(SAT)_Max}$ (V)
CNY65	13.64x9.74x6.01	1.6	3 / 5	80	50~300	8200	0.3

Photo Coupler | Transistor | 4Pin SOP-AC



UNIT : mm

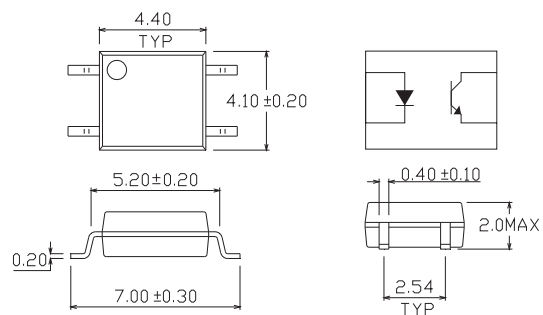


Product	Size (LxWxHmm)	V_{F_Typ} (V)	Rise / Fall Time (μ s)	BV_{CEO_Min} (V)	CTR (%)	Viso (V_{rms})	$V_{CE(SAT)_Max}$ (V)
EL354N-G	4.4x4.1x2	1.2	6 / 8	80	20~300	3750	0.2

Photo Coupler | Transistor | 4Pin SOP-DC

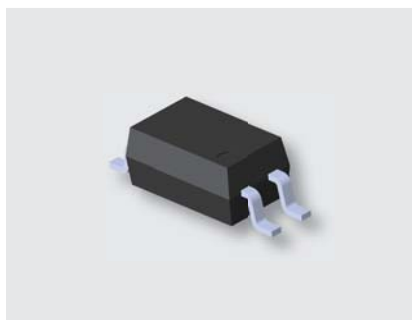


UNIT : mm

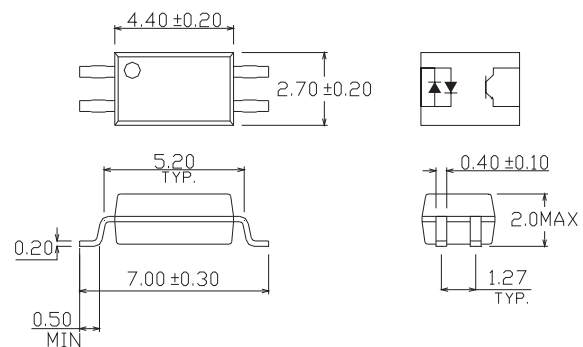


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL357N-G	4.4x4.1x2	1.2	3 / 4	80	50~600	3750	0.2

Photo Coupler | Transistor | 4Pin SSOP-AC

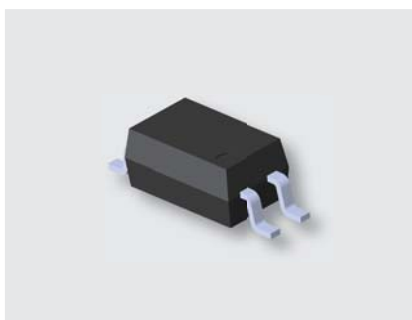


UNIT : mm

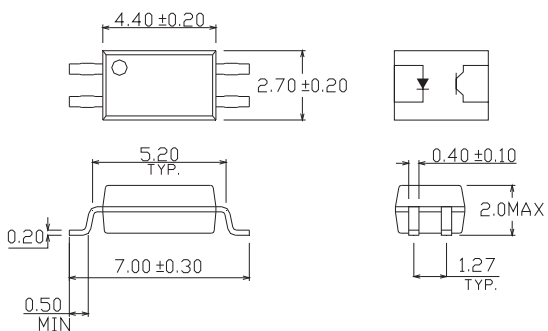


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL3H4-G	4.4x2.7x2	1.2	6 / 8	80	20~300	3750	0.2

Photo Coupler | Transistor | 4Pin SSOP-DC

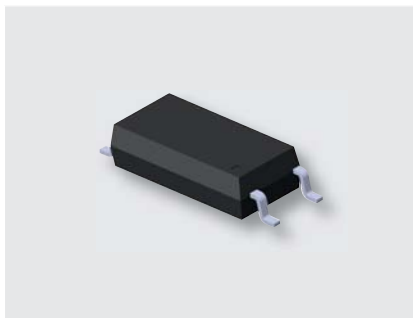


UNIT : mm

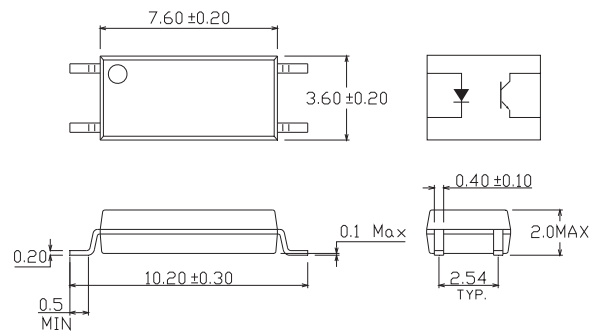


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
EL3H7-G	4.4x2.7x2	1.2	5 / 3	80	50~600	3750	0.2

Photo Coupler I Transistor I 4Pin Long Creepage

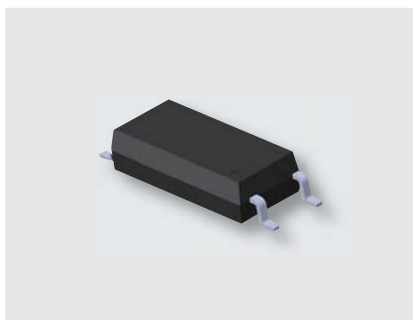


UNIT : mm

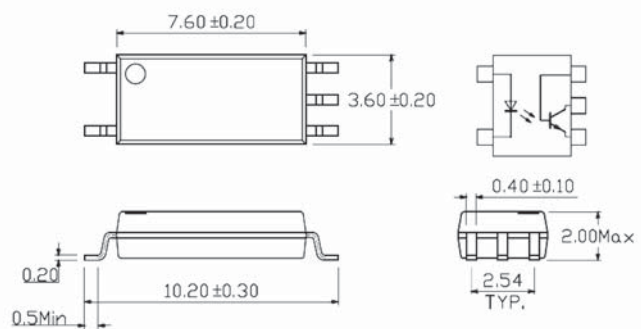


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL1010-G	7.6x3.6x2	1.45	2 / 3	80	50~600	5000	0.3
EL1012-G	7.6x3.6x2	1.45	2 / 3	80	63~125	5000	0.3
EL1013-G	7.6x3.6x2	1.45	2 / 3	80	100~200	5000	0.3
EL1014-G	7.6x3.6x2	1.45	2 / 3	80	160~320	5000	0.3
EL1017-G	7.6x3.6x2	1.45	2 / 3	80	80~160	5000	0.3
EL1018-G	7.6x3.6x2	1.45	2 / 3	80	130~260	5000	0.3
EL1019-G	7.6x3.6x2	1.45	2 / 3	80	200~400	5000	0.3

Photo Coupler I Transistor I 5Pin Long Creepage

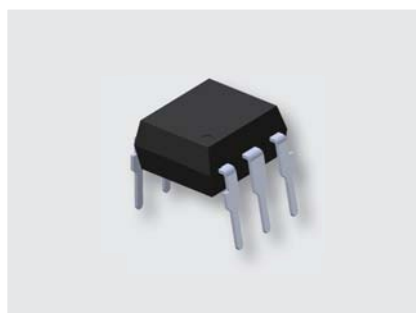


UNIT : mm

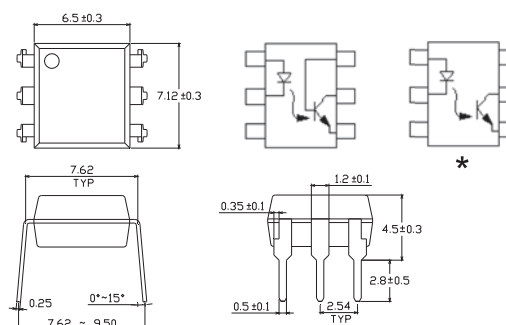


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL1110-G	7.6x3.6x2	1.45	2 / 3	80	50~600	5000	0.4
EL1112-G	7.6x3.6x2	1.45	2 / 3	80	63~125	5000	0.4
EL1113-G	7.6x3.6x2	1.45	2 / 3	80	100~200	5000	0.4
EL1114-G	7.6x3.6x2	1.45	2 / 3	80	160~320	5000	0.4
EL1116-G	7.6x3.6x2	1.45	2 / 3	80	100~300	5000	0.4
EL1117-G	7.6x3.6x2	1.45	2 / 3	80	80~160	5000	0.4
EL1118-G	7.6x3.6x2	1.45	2 / 3	80	130~260	5000	0.4
EL1119-G	7.6x3.6x2	1.45	2 / 3	80	200~400	5000	0.4

Photo Coupler | Transistor | 6Pin DIP-DC



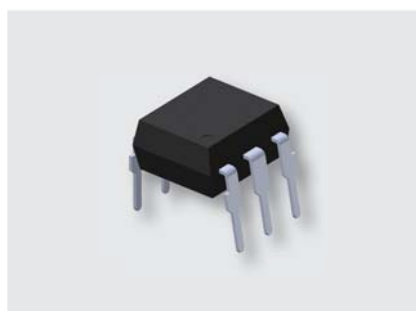
UNIT : mm



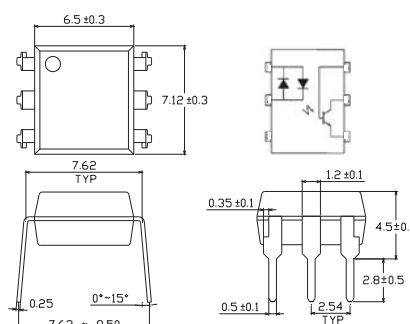
Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
4N25	7.12x6.5x3.5	1.2	3 / 3	80	20 min.	5000	0.5
4N26	7.12x6.5x3.5	1.2	3 / 3	80	20 min.	5000	0.5
4N27	7.12x6.5x3.5	1.2	3 / 3	80	10 min.	5000	0.5
4N28	7.12x6.5x3.5	1.2	3 / 3	80	10 min.	5000	0.5
4N35	7.12x6.5x3.5	1.2	10 / 9	80	100 min.	5000	0.3
4N36	7.12x6.5x3.5	1.2	10 / 9	80	100 min.	5000	0.3
4N37	7.12x6.5x3.5	1.2	10 / 9	80	100 min.	5000	0.3
4N38	7.12x6.5x3.5	1.2	10 / 9	80	20 min.	5000	1
CNY17-1	7.12x6.5x3.5	--	6 / 8	80	40~80	5000	0.3
CNY17-2	7.12x6.5x3.5	--	6 / 8	80	63~125	5000	0.3
CNY17-3	7.12x6.5x3.5	--	6 / 8	80	100~200	5000	0.3
CNY17-4	7.12x6.5x3.5	--	6 / 8	80	160~320	5000	0.3
*CNY17F-1	7.12x6.5x3.5	--	6 / 8	80	40~80	5000	0.3
*CNY17F-2	7.12x6.5x3.5	--	6 / 8	80	63~125	5000	0.3
*CNY17F-3	7.12x6.5x3.5	--	6 / 8	80	100~200	5000	0.3
*CNY17F-4	7.12x6.5x3.5	--	6 / 8	80	160~320	5000	0.3
H11A1	7.12x6.5x3.5	1.2	3 / 3	80	50 min.	5000	0.4
H11A2	7.12x6.5x3.5	1.2	3 / 3	80	20 min.	5000	0.4
H11A3	7.12x6.5x3.5	1.2	3 / 3	80	20 min.	5000	0.4
H11A4	7.12x6.5x3.5	1.2	3 / 3	80	10 min.	5000	0.4
H11A5	7.12x6.5x3.5	1.2	3 / 3	80	30 min.	5000	0.4
MCT2E	7.12x6.5x3.5	1.23	3 / 3	80	20 min.	5000	0.4
TIL111	7.12x6.5x3.5	1.22	6 / 8	80	--	5000	0.4
TIL117	7.12x6.5x3.5	--	6 / 8	80	50 min.	5000	0.4

Star mark * : Please refer to the schematic of Pin configuration with " * " mark

Photo Coupler | Transistor | 6Pin DIP-AC

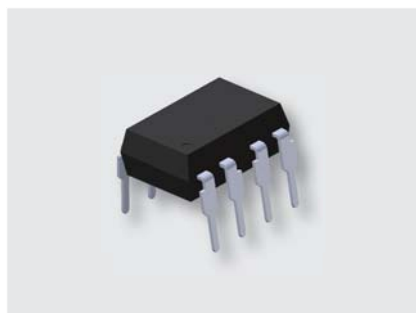


UNIT : mm

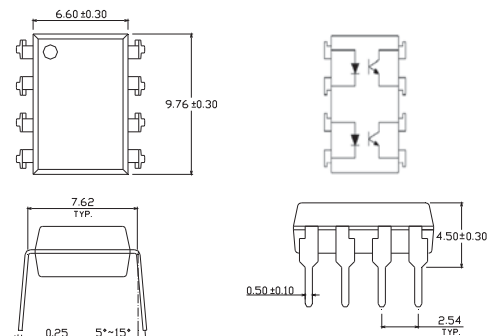


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
H11AA1	7.12x6.5x3.5	1.2	10 / 10	80	20 min.	5000	0.4
H11AA2	7.12x6.5x3.5	1.2	10 / 10	80	10 min.	5000	0.4
H11AA3	7.12x6.5x3.5	1.2	10 / 10	80	50 min.	5000	0.4
H11AA4	7.12x6.5x3.5	1.2	10 / 10	80	100 min.	5000	0.4

Photo Coupler | Transistor | 8Pin DIP-DC

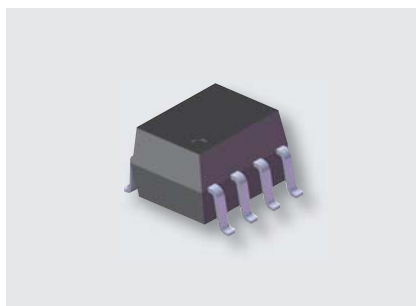


UNIT : mm

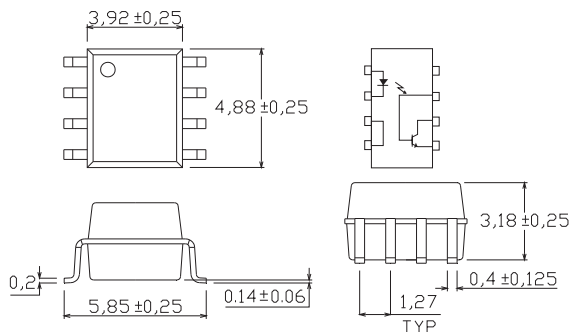


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL827	9.76x6.5x3.5	1.2	3 / 4	80	50~600	5000	0.2

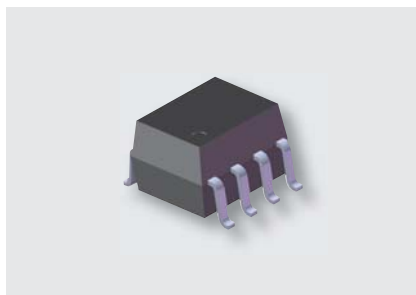
Photo Coupler | Transistor | 8Pin SOP-DC



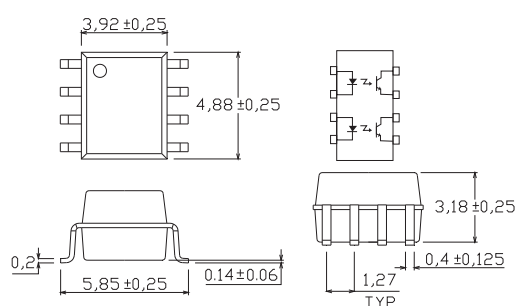
UNIT : mm



Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
EL205	4.88x3.92x3.18	1.3	1.6 / 2.2	80	40~80	3750	0.4
EL206	4.88x3.92x3.18	1.3	1.6 / 2.2	80	63~125	3750	0.4
EL207	4.88x3.92x3.18	1.3	1.6 / 2.2	80	100~200	3750	0.4
EL208	4.88x3.92x3.18	1.3	1.6 / 2.2	80	160~320	3750	0.4
EL211	4.88x3.92x3.18	1.3	1.6 / 2.2	80	20 min.	3750	0.4
EL212	4.88x3.92x3.18	1.3	1.6 / 2.2	80	50 min.	3750	0.4
EL213	4.88x3.92x3.18	1.3	1.6 / 2.2	80	100 min.	3750	0.4
EL215	4.88x3.92x3.18	1.3	1.6 / 2.2	80	10 min.	3750	0.4
EL216	4.88x3.92x3.18	1.3	1.6 / 2.2	80	50 min.	3750	0.4
EL217	4.88x3.92x3.18	1.3	1.6 / 2.2	80	100 min.	3750	0.4



UNIT : mm

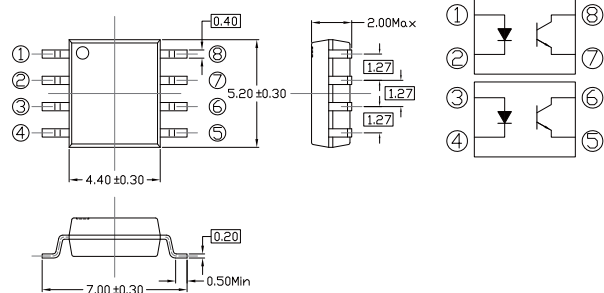


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO} Min (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)} Max (V)
ELD205	4.88x3.92x3.18	1.2	1.6 / 2.2	80	40~80	3750	0.4
ELD206	4.88x3.92x3.18	1.2	1.6 / 2.2	80	63~125	3750	0.4
ELD207	4.88x3.92x3.18	1.2	1.6 / 2.2	80	100~200	3750	0.4
ELD211	4.88x3.92x3.18	1.2	1.6 / 2.2	80	20 min.	3750	0.4
ELD213	4.88x3.92x3.18	1.2	1.6 / 2.2	80	100 min.	3750	0.4
ELD217	4.88x3.92x3.18	1.2	1.6 / 2.2	80	100 min.	3750	0.4

Photo Coupler ■ Transistor ■ 8Pin SSOP-DC



UNIT : mm

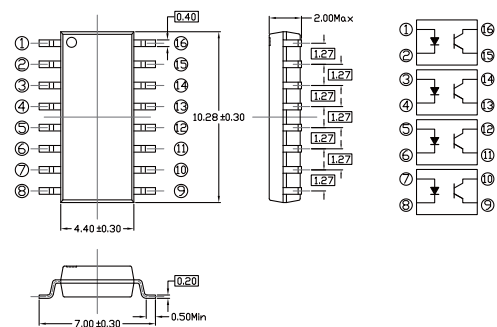


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
ELD3H7-G	5.2×4.4×2	1.2	5 / 3	80	50~600	3750	0.2

Photo Coupler ■ Transistor ■ 16Pin SSOP-DC



UNIT : mm

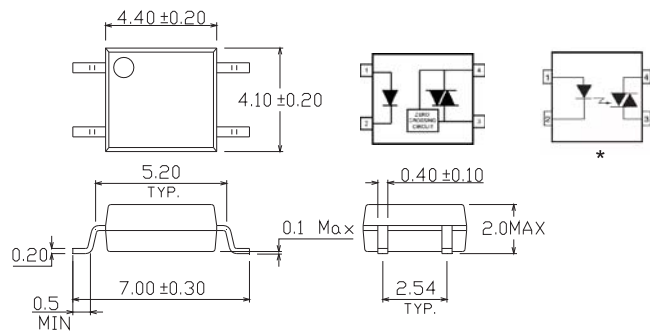


Product	Size (LxWxHmm)	V _{F_Typ} (V)	Rise / Fall Time (μs)	BV _{CEO_Min} (V)	CTR (%)	Viso (V _{rms})	V _{CE(SAT)_Max} (V)
ELQ3H7-G	10.28×4.4×2	1.2	5 / 3	80	50~600	3750	0.2

Photo Coupler | Triac | 4Pin SOP



UNIT : mm



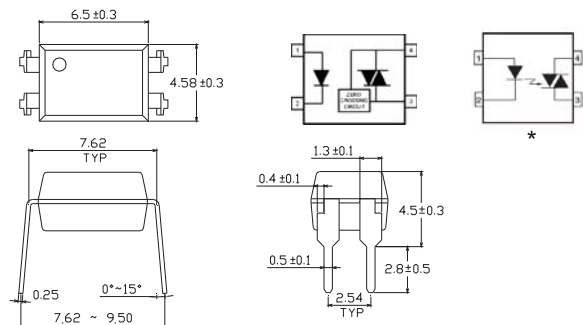
Product	Size (LxWxHmm)	V _{TM} (V)	V _{INH} (V)	V _{DRM} (V)	V _{F_Max} (V)	Viso (V _{rms})	I _{FT} (mA)
ELM3042	4.4x4.1x2	3	20	400	1.5	3750	10
ELM3043	4.4x4.1x2	3	20	400	1.5	3750	5
ELM3044	4.4x4.1x2	3	20	400	1.5	3750	3
ELM3062	4.4x4.1x2	3	20	600	1.5	3750	10
ELM3063	4.4x4.1x2	3	20	600	1.5	3750	5
ELM3064	4.4x4.1x2	3	20	600	1.5	3750	3
ELM3082	4.4x4.1x2	3	20	800	1.5	3750	10
ELM3083	4.4x4.1x2	3	20	800	1.5	3750	5
ELM3084	4.4x4.1x2	3	20	800	1.5	3750	3
*ELM3022	4.4x4.1x2	2.5	--	400	1.2	3750	10
*ELM3023	4.4x4.1x2	2.5	--	400	1.2	3750	5
*ELM3024	4.4x4.1x2	2.5	--	400	1.2	3750	3
*ELM3052	4.4x4.1x2	2.5	--	600	1.2	3750	10
*ELM3053	4.4x4.1x2	2.5	--	600	1.2	3750	5
*ELM3054	4.4x4.1x2	2.5	--	600	1.2	3750	3

Star mark * : Please refer to the schematic of Pin configuration with " ★ " mark

Photo Coupler ■ Triac ■ 4Pin DIP



UNIT : mm



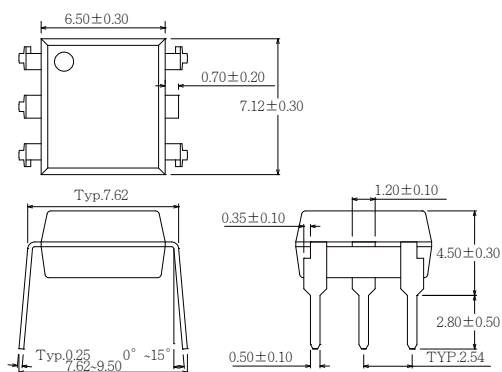
Product	Size (LxWxHmm)	V_{TM} (V)	V_{INH} (V)	V_{DRM} (V)	V_{F_Max} (V)	Viso (V_{rms})	I_{FT} (mA)
ELT3041	6.5×4.58×3.5	3	20	400	1.5	5000	15
ELT3042	6.5×4.58×3.5	3	20	400	1.5	5000	10
ELT3043	6.5×4.58×3.5	3	20	400	1.5	5000	5
ELT3061	6.5×4.58×3.5	3	20	600	1.5	5000	15
ELT3062	6.5×4.58×3.5	3	20	600	1.5	5000	10
ELT3063	6.5×4.58×3.5	3	20	600	1.5	5000	5
ELT3081	6.5×4.58×3.5	3	20	800	1.5	5000	15
ELT3082	6.5×4.58×3.5	3	20	800	1.5	5000	10
ELT3083	6.5×4.58×3.5	3	20	800	1.5	5000	5
*ELT3021	6.5×4.58×3.5	2.5	-	400	1.2	5000	15
*ELT3022	6.5×4.58×3.5	2.5	-	400	1.2	5000	10
*ELT3023	6.5×4.58×3.5	2.5	-	400	1.2	5000	5
*ELT3051	6.5×4.58×3.5	2.5	-	600	1.2	5000	15
*ELT3052	6.5×4.58×3.5	2.5	-	600	1.2	5000	10
*ELT3053	6.5×4.58×3.5	2.5	-	600	1.2	5000	5

Star mark * : Please refer to the schematic of Pin configuration with " ★ " mark

Photo Coupler I Triac I 5Pin DIP

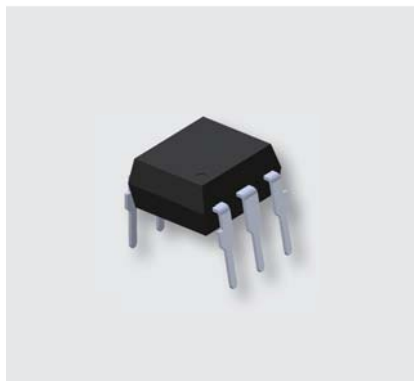


UNIT : mm

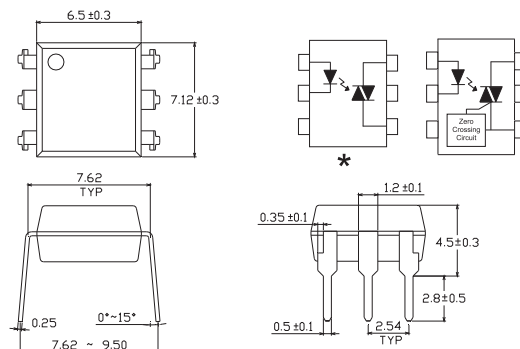


Product	Size (LxWxHmm)	V_{TM} (V)	V_{INH} (V)	V_{DRM} (V)	V_{F_Typ} (V)	Viso (V_{rms})	I_{FT} (mA)
EL3031(P5)	7.12x6.5x3.5	3	20	250	--	5000	15
EL3032(P5)	7.12x6.5x3.5	3	20	250	--	5000	10
EL3033(P5)	7.12x6.5x3.5	3	20	250	--	5000	5
EL3041(P5)	7.12x6.5x3.5	3	20	400	--	5000	15
EL3042(P5)	7.12x6.5x3.5	3	20	400	--	5000	10
EL3043(P5)	7.12x6.5x3.5	3	20	400	--	5000	5
EL3061(P5)	7.12x6.5x3.5	3	20	600	--	5000	15
EL3062(P5)	7.12x6.5x3.5	3	20	600	--	5000	10
EL3063(P5)	7.12x6.5x3.5	3	20	600	--	5000	5
EL3081(P5)	7.12x6.5x3.5	3	20	800	--	5000	15
EL3082(P5)	7.12x6.5x3.5	3	20	800	--	5000	10
EL3083(P5)	7.12x6.5x3.5	3	20	800	--	5000	5
EL3010(P5)	7.12x6.5x3.5	2.5	--	250	1.18	5000	15
EL3011(P5)	7.12x6.5x3.5	2.5	--	250	1.18	5000	10
EL3012(P5)	7.12x6.5x3.5	2.5	--	250	1.18	5000	5
EL3021(P5)	7.12x6.5x3.5	2.5	--	400	1.18	5000	15
EL3022(P5)	7.12x6.5x3.5	2.5	--	400	1.18	5000	10
EL3023(P5)	7.12x6.5x3.5	2.5	--	400	1.18	5000	5
EL3051(P5)	7.12x6.5x3.5	2.5	--	600	1.18	5000	15
EL3052(P5)	7.12x6.5x3.5	2.5	--	600	1.18	5000	10
EL3053(P5)	7.12x6.5x3.5	2.5	--	600	1.18	5000	5

Photo Coupler I Triac I 6Pin DIP



UNIT : mm



Product	Size (LxWxHmm)	V_{TM} (V)	V_{INH} (V)	V_{DRM} (V)	V_{F_Typ} (V)	Viso (V_{rms})	I_{FT} (mA)
EL3031	7.12x6.5x3.5	3	20	250	--	5000	15
EL3032	7.12x6.5x3.5	3	20	250	--	5000	10
EL3033	7.12x6.5x3.5	3	20	250	--	5000	5
EL3041	7.12x6.5x3.5	3	20	400	--	5000	15
EL3042	7.12x6.5x3.5	3	20	400	--	5000	10
EL3043	7.12x6.5x3.5	3	20	400	--	5000	5
EL3061	7.12x6.5x3.5	3	20	600	--	5000	15
EL3062	7.12x6.5x3.5	3	20	600	--	5000	10
EL3063	7.12x6.5x3.5	3	20	600	--	5000	5
EL3081	7.12x6.5x3.5	3	20	800	--	5000	15
EL3082	7.12x6.5x3.5	3	20	800	--	5000	10
EL3083	7.12x6.5x3.5	3	20	800	--	5000	5
*EL3010	7.12x6.5x3.5	2.5	--	250	1.18	5000	15
*EL3011	7.12x6.5x3.5	2.5	--	250	1.18	5000	10
*EL3012	7.12x6.5x3.5	2.5	--	250	1.18	5000	5
*EL3021	7.12x6.5x3.5	2.5	--	400	1.18	5000	15
*EL3022	7.12x6.5x3.5	2.5	--	400	1.18	5000	10
*EL3023	7.12x6.5x3.5	2.5	--	400	1.18	5000	5
*EL3051	7.12x6.5x3.5	2.5	--	600	1.18	5000	15
*EL3052	7.12x6.5x3.5	2.5	--	600	1.18	5000	10
*EL3053	7.12x6.5x3.5	2.5	--	600	1.18	5000	5

Star mark * : Please refer to the schematic of Pin configuration with " * " mark

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