

0.65X0.35X0.02mm(0201) SMD CHIP LED LAMP

Part Number: KPG-0603SYC-TT

Super Bright Yellow

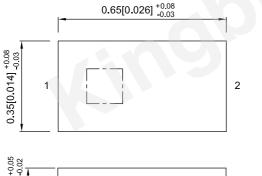
Features

- 0.65mmX0.35mm SMD LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Package:4000pcs/reel.
- Moisture sensitivity level : level 2.
- RoHS compliant.

Description

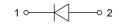
The Super Bright Yellow source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

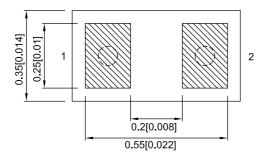
Package Dimensions

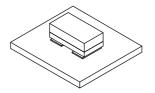












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
KPG-0603SYC-TT	Super Bright Yellow (AlGaInP)	Water Clear	10	30	140°

Notes:

- 1. 01 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.

 2. Luminous intensity / luminous Flux: + / -15%.
- 3. Luminous intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	591		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	15		nm	I==10mA
VF [2]	Forward Voltage	Super Bright Yellow	2.01	2.4	V	IF=10mA
lR	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

- 1. Wavelength: + / -1nm.
- 2. Forward Voltage: + / -0.1V.
 3. Wavelength value is traceable to CIE127-2007 standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

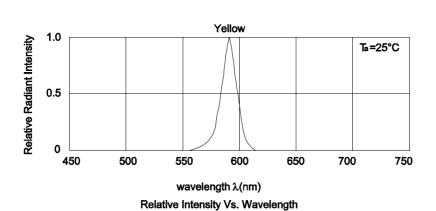
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	48	mW	
DC Forward Current	20	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

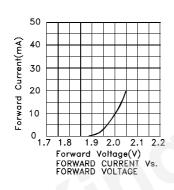
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

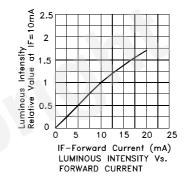
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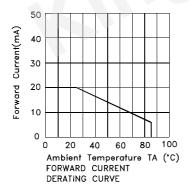
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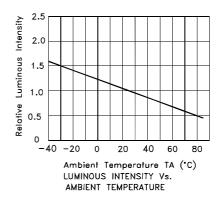


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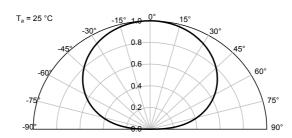








Spatial Distribution



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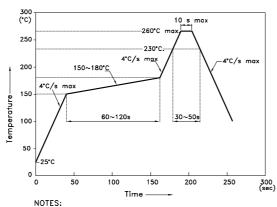
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KPG-0603SYC-TT

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

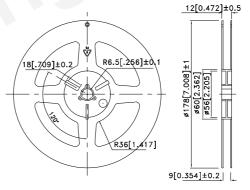
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

3. Number of reflow process shall be 2 times or less.

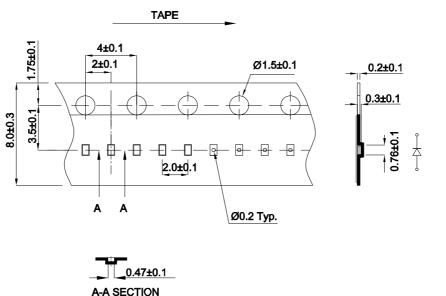
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.2 0.2 Mask open area ratio:80% Mask thickness:80~100um

Reel Dimension



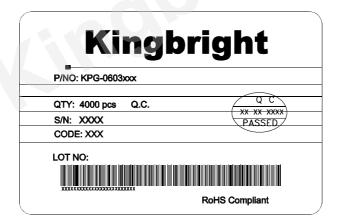
Tape Dimensions



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PACKING & LABEL SPECIFICATIONS KPG-0603SYC-TT Label Label 1 Reel/Bag Outside Label Kingbright Kingbright Mingbright M



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