3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: KAA-3528SURKSYKCT

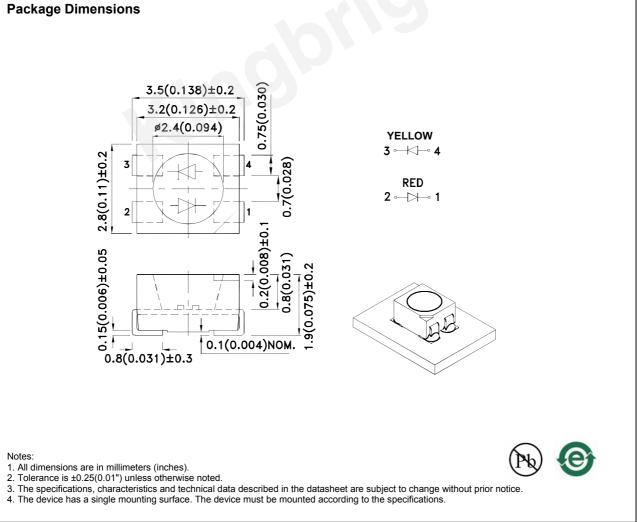
Hyper Red Super Bright Yellow

Features

- Both chips can be controlled separately.
- Suitable for all SMD assembly and solder process.
- Available on tape and reel.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

- The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.



SPEC NO: DSAI8289 APPROVED: Wynec REV NO: V.5A CHECKED: Allen Liu DATE: APR/19/2016 DRAWN: M.Liu PAGE: 1 OF 6 ERP: 1201004312

Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
KAA-3528SURKSYKCT	Hyper Red (AlGaInP)	Water Clear	200	320	120°				
			*55	*100					
	Super Bright Yellow (AlGaInP)		120	240					
			*120	*240					

Notes:

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

2. Luminous intensity / luminous Flux: +/-15%.

* 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	Hyper Red Super Bright Yellow	645 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Super Bright Yellow	630 590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Super Bright Yellow	28 20		nm	IF=20mA
С	Capacitance	Hyper Red Super Bright Yellow	35 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Super Bright Yellow	1.95 2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red Super Bright Yellow		10 10	uA	VR = 5V

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
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.

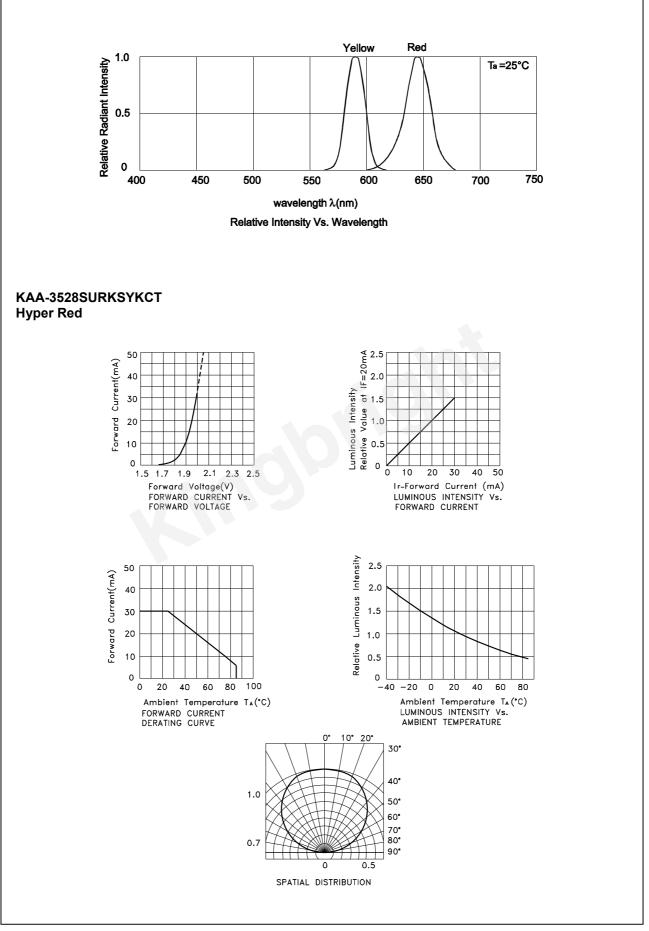
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Super Bright Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	175	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

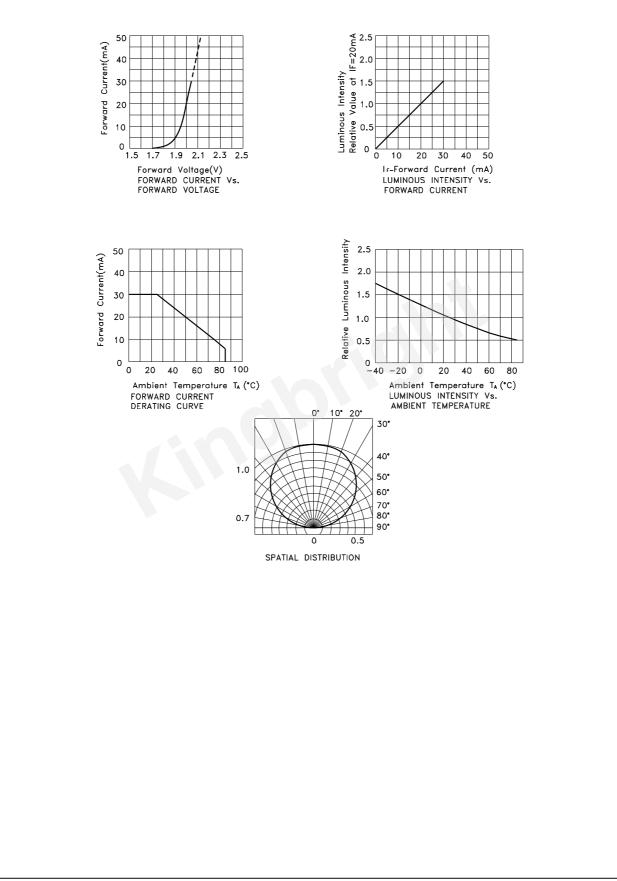
Notes:

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.



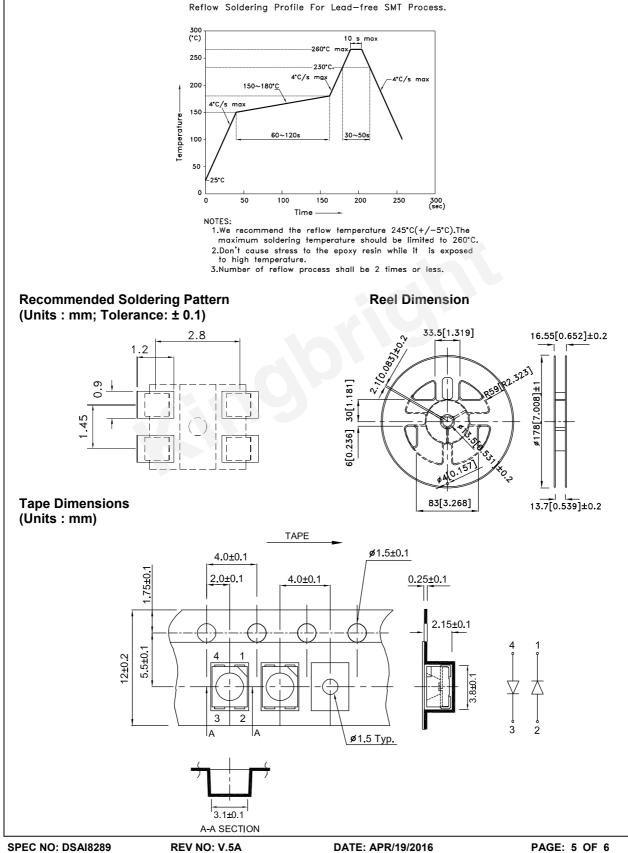
Super Bright Yellow



KAA-3528SURKSYKCT

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.

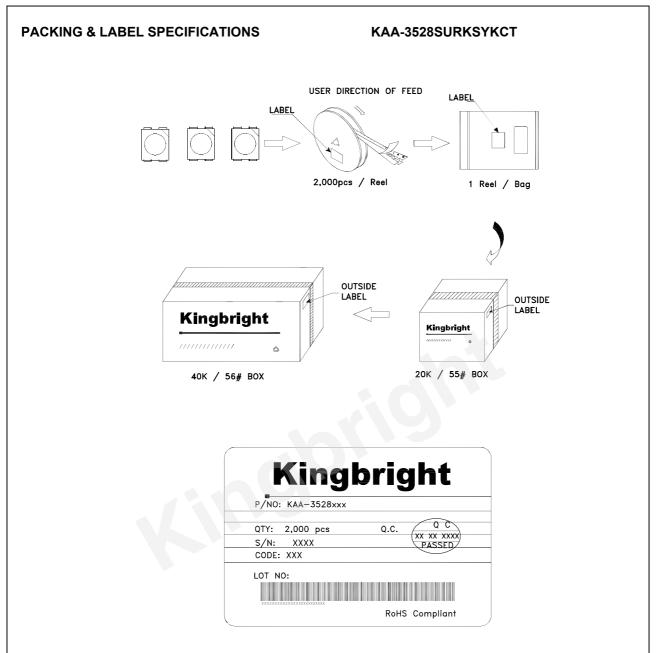


APPROVED: Wynec

CHECKED: Allen Liu

DRAWN: M.Liu

ERP: 1201004312



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