3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: KPB-3025SURKSYKC

Hyper Red Super Bright Yellow

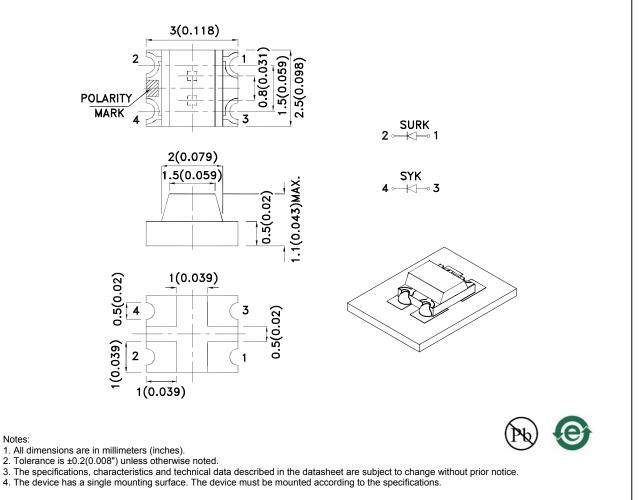
Features

- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi-color,Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAE2586 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: JAN/16/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1203003473

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min. Typ.	Тур.	201/2
KPB-3025SURKSYKC	Hyper Red (AlGaInP)	Water Clear	120	250	120°
			*40	*70	
	Super Bright Yellow (AlGaInP)		80	120	
			*80	*120	

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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	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	I⊧=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:

1.Wavelength: +/-1nm.

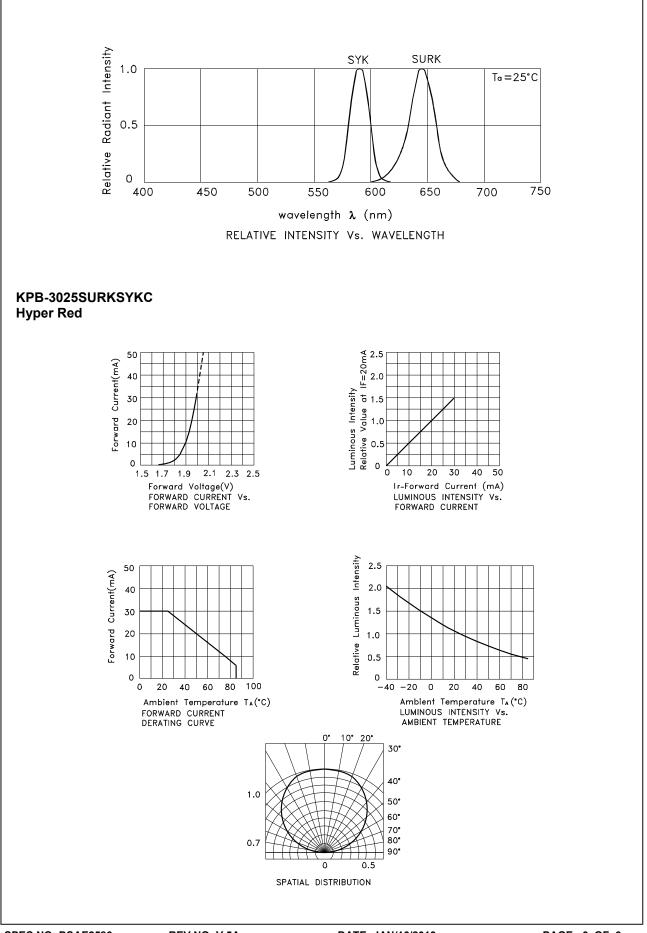
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

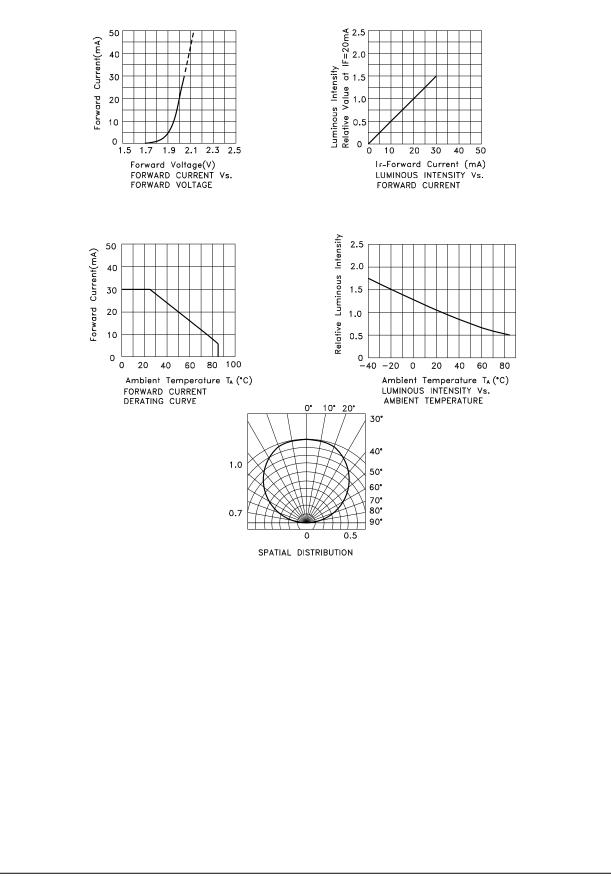
Parameter	Hyper Red	Super Bright Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	175	mA		
Reverse Voltage	5				
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



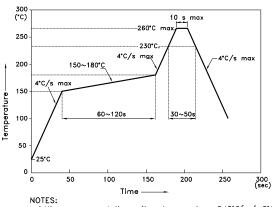
Super Bright Yellow



KPB-3025SURKSYKC

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.

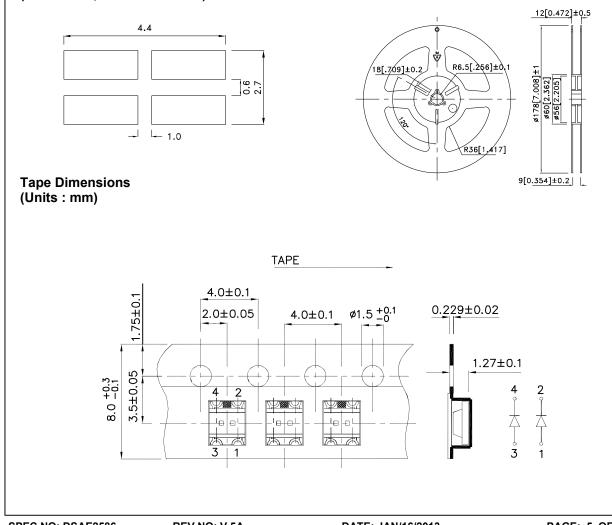
Reflow Soldering Profile For Lead-free SMT Process.



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)

Reel Dimension



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