2.0x1.25mm BI-COLOR SMD CHIP LED LAMP

Part Number: APB2012SURKSYKC

Hyper Red Super Bright Yellow

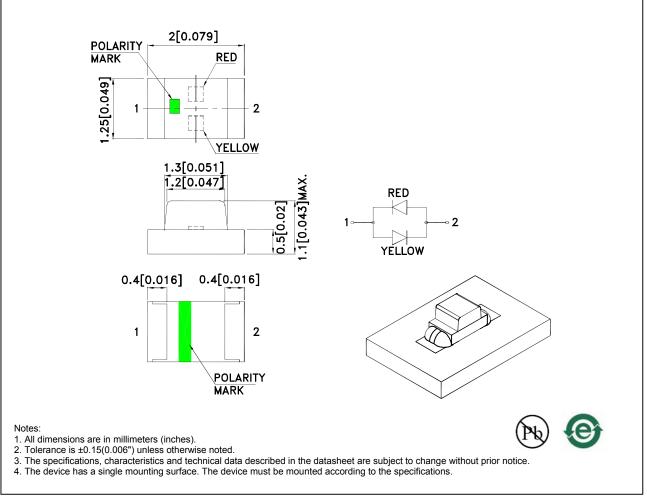
Features

- 2.0mmx1.25mm 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



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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APB2012SURKSYKC	Hyper Red (AlGaInP)	Water Clear	120	200	150°
			*40	*80	
	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	650 590	*645 *590 nn		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Super Bright Yellow	630 590	*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	bltage Hyper Red 1.95 Super Bright Yellow 2		-	2.5 2.5	V	IF=20mA

Notes:

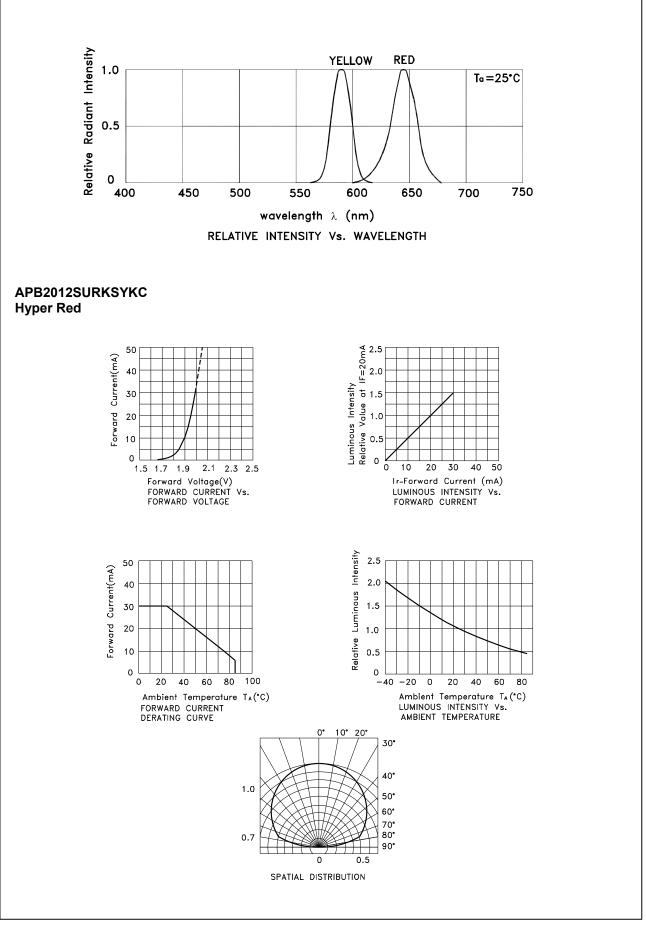
1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V.

*Wavelength value is traceable to the CIE127-2007 compliant national standards.

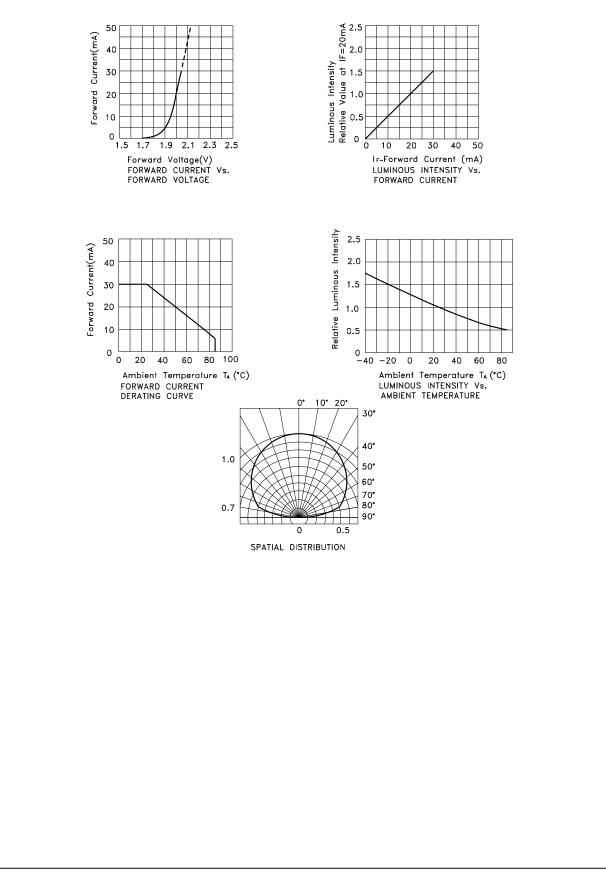
Absolute Maximum Ratings at TA=25°C

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		
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

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

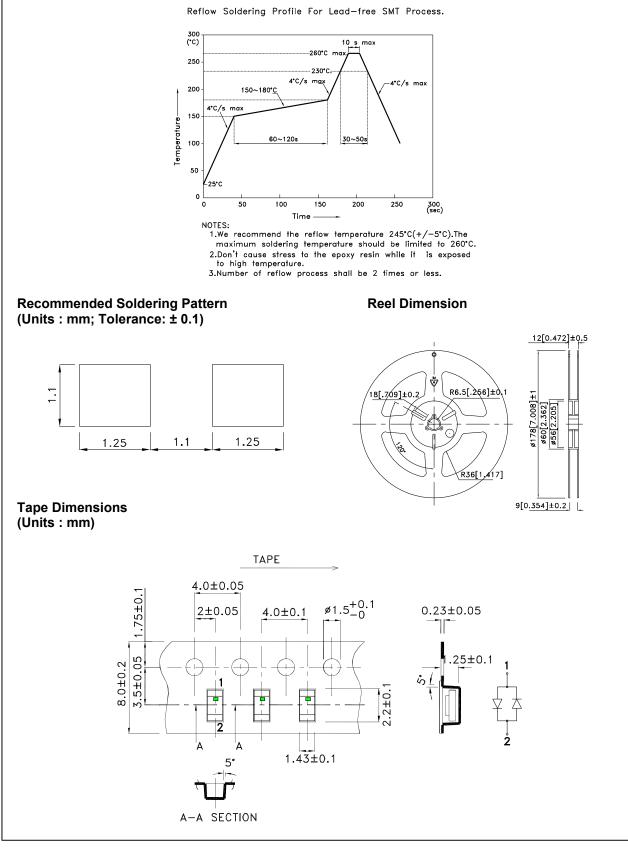


Super Bright Yellow



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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.



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