1.6x0.8x0.5mm BI-COLOR SURFACE MOUNT LED

Part Number: APHB1608SYKSURKC

Super Bright Yellow Hyper Red

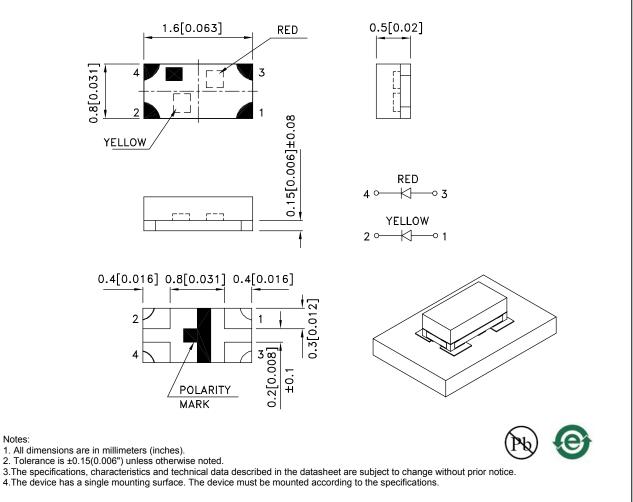
Features

- 1.6mmX0.8mm SMT LED, 0.5mm thickness.
- Compatible with reflow soldering.
- Available in various color combination.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Descriptions

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

Package Dimensions



SPEC NO: DSAK7903 APPROVED: WYNEC REV NO: V.7A CHECKED: Allen Liu DATE: MAR/16/2015 DRAWN: P.Cheng PAGE: 1 OF 6 ERP: 1203011313

Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 80 150 Super Bright Yellow (AlGaInP) *150 *80 APHB1608SYKSURKC Water Clear 130° 120 250 Hyper Red (AlGaInP) *40 *90

Notes

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

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

Notes:

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

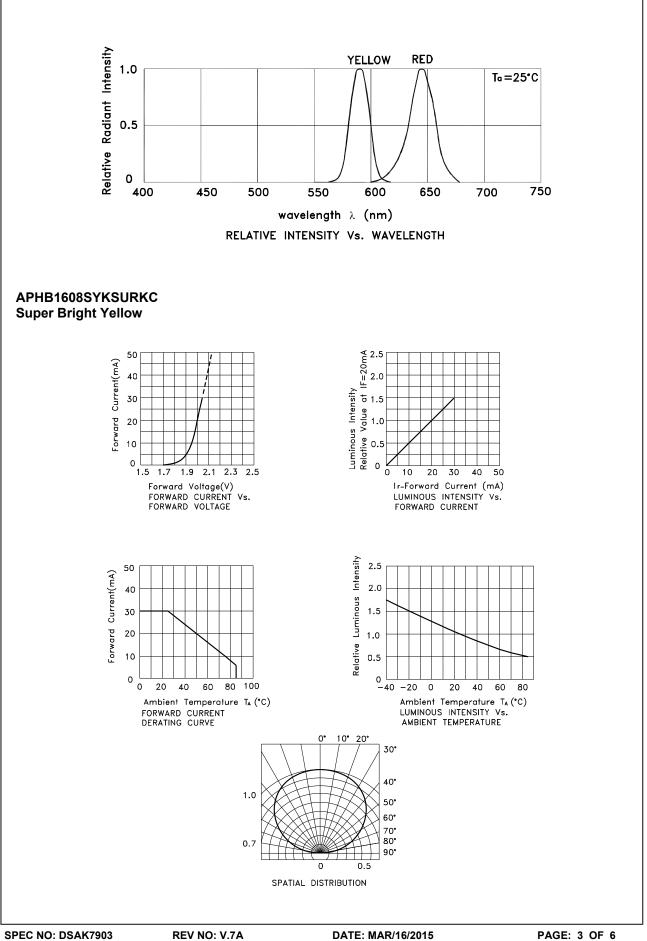
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

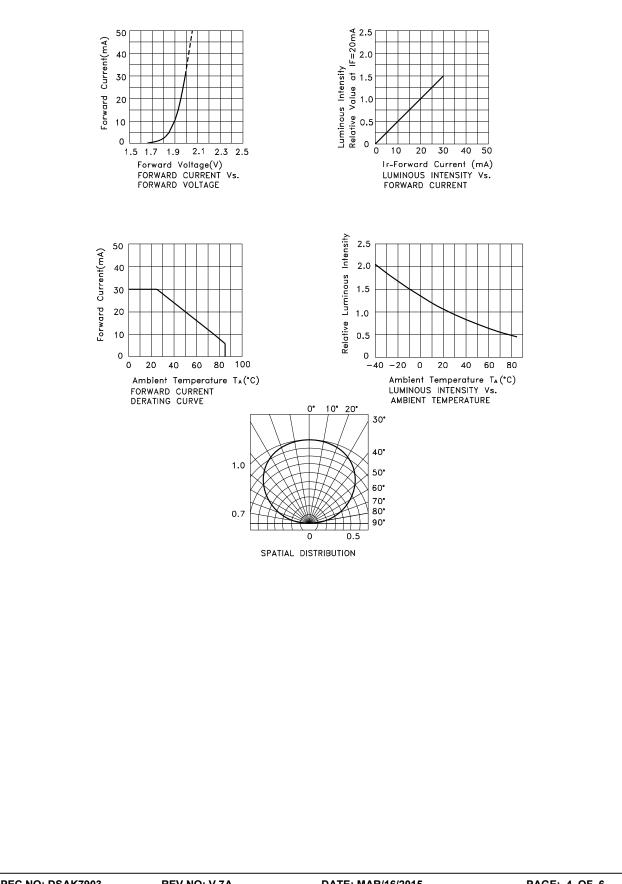
Absolute Maximum Ratings at TA=25°C

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

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



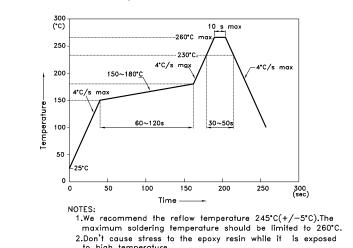
Hyper Red



APHB1608SYKSURKC

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.

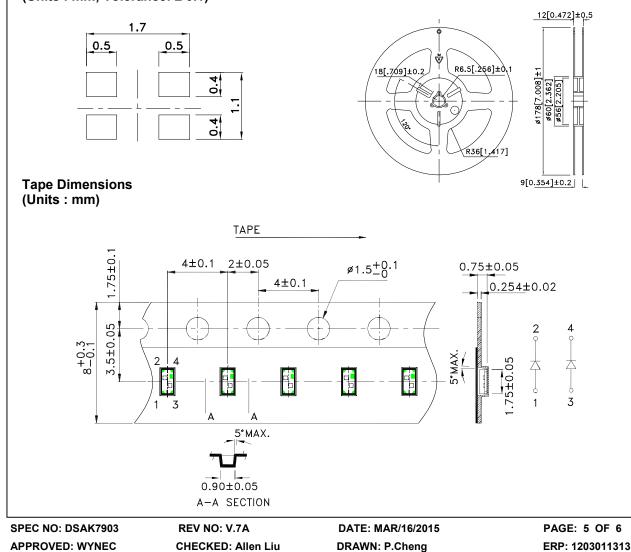
Reflow Soldering Profile For Lead-free SMT Process.

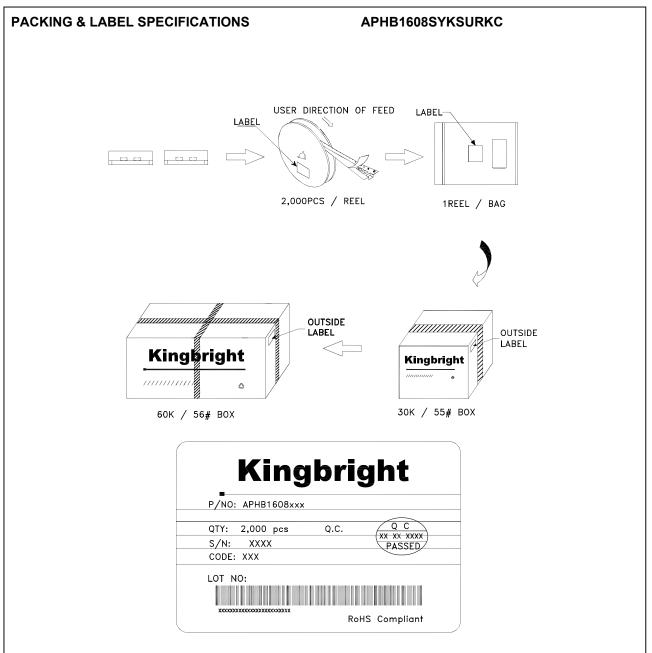


to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension





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