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

Part Number: APHB1608LSYKSURKC

Super Bright Yellow Hyper Red

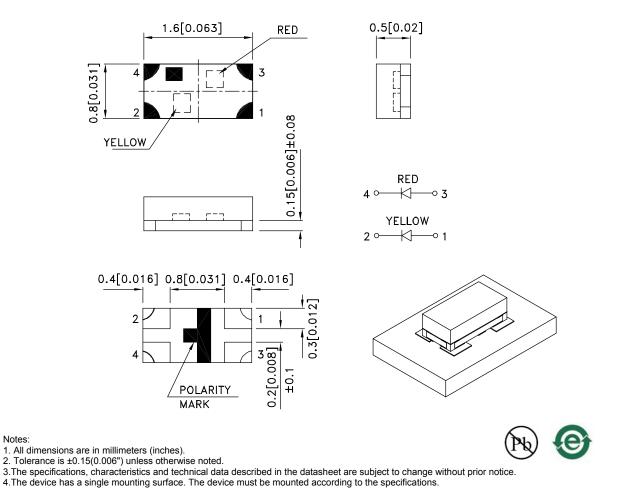
Features

- 1.6mmX0.8mm SMD 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.
- Low current IF=2mA operating.
- 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: DSAO5241 **APPROVED: Wynec**

Notes:

REV NO: V.2A CHECKED: Allen Liu DATE: SEP/25/2015 DRAWN: M.Liu

PAGE: 1 OF 6 ERP: 1203015222

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
APHB1608LSYKSURKC	Super Bright Yellow (AlGaInP)	Water Clear	6	10	- 130°
			*6	*10	
	Hyper Red (AlGaInP)		10	20	
			*2	*8	

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	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow Hyper Red		590 645		nm	IF=2mA
λD [1]	Dominant Wavelength	Super Bright Yellow Hyper Red		590 630		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow Hyper Red		20 28		nm	I⊧=2mA
С	Capacitance	Super Bright Yellow Hyper Red		20 35		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Yellow Hyper Red	1.5 1.5	1.85 1.75	2.1 2.1	V	I⊧=2mA
lr	Reverse Current	Super Bright Yellow Hyper Red			10 10	uA	VR = 5V

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

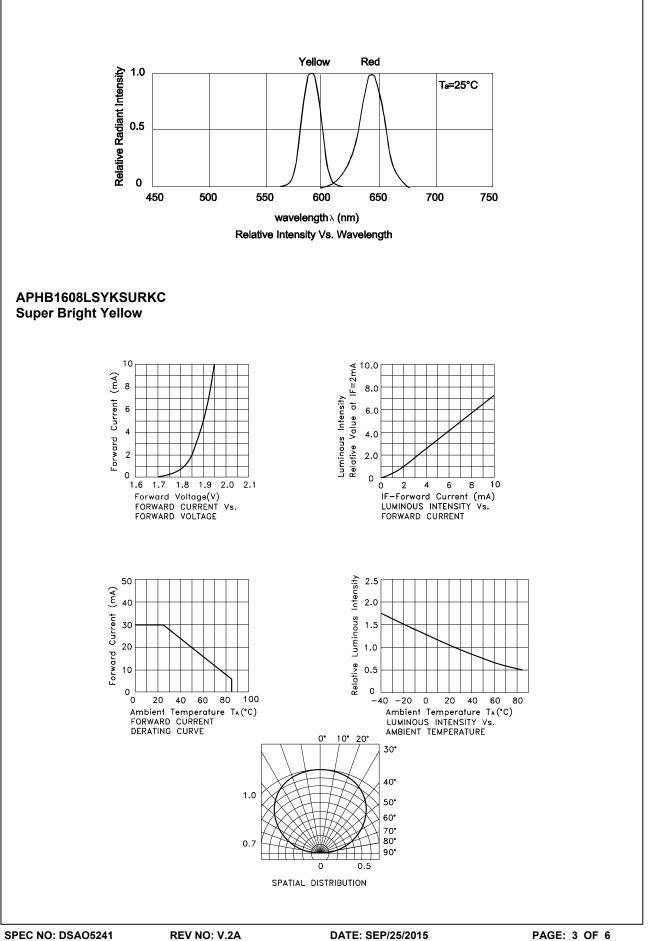
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

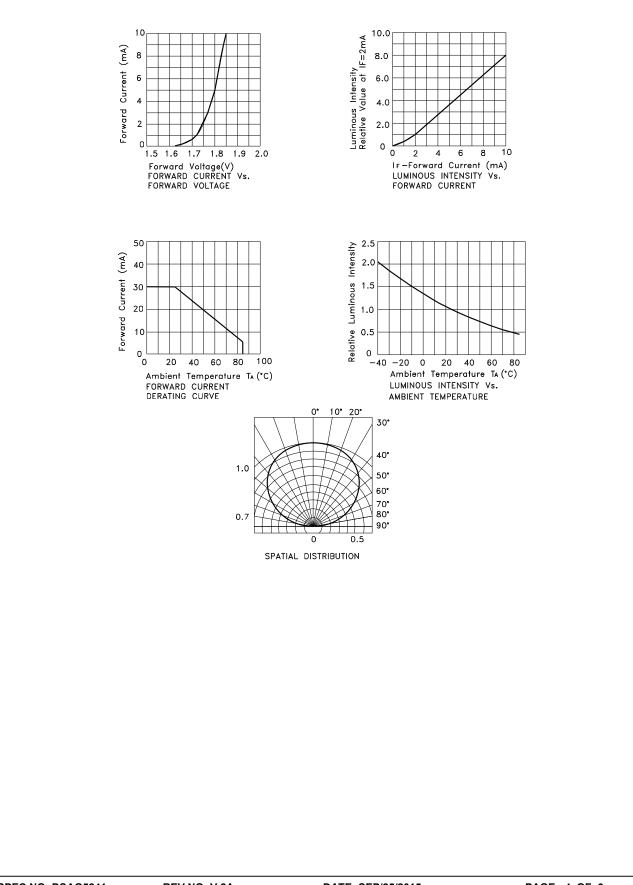
Parameter	Super Bright Yellow	Hyper Red	Units		
Power dissipation	63	63	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	175	185	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



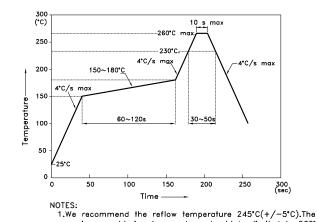
Hyper Red



APHB1608LSYKSURKC

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.

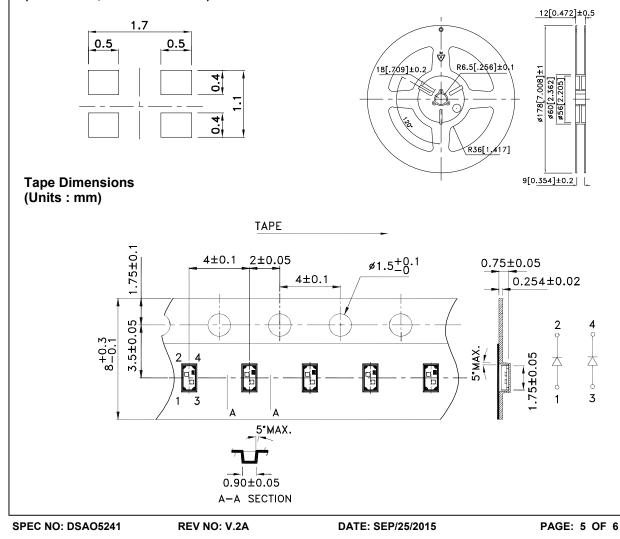


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed

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



Reel Dimension

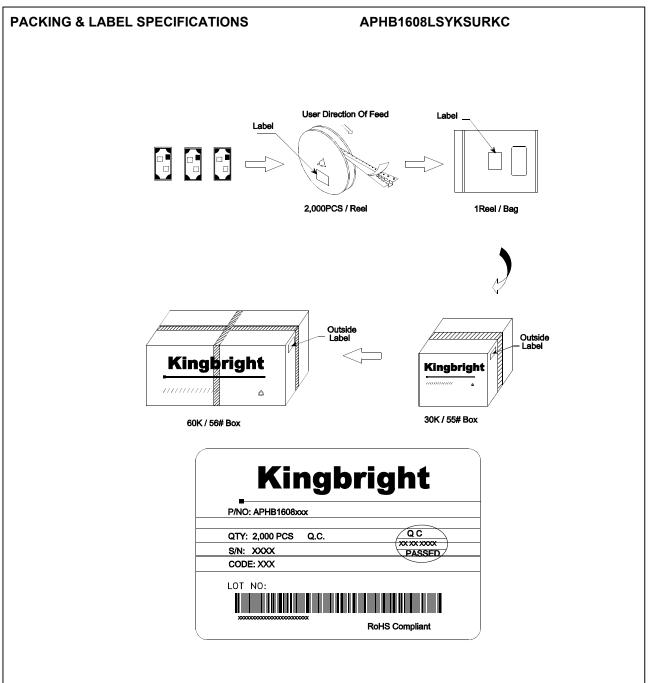


APPROVED: Wynec

CHECKED: Allen Liu

DRAWN: M.Liu

ERP: 1203015222



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