1.6X1.25mm BI-COLOR SMD CHIP LED LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmx1.25mm SMD LED, 0.65mm thickness.
- Bi-color, low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

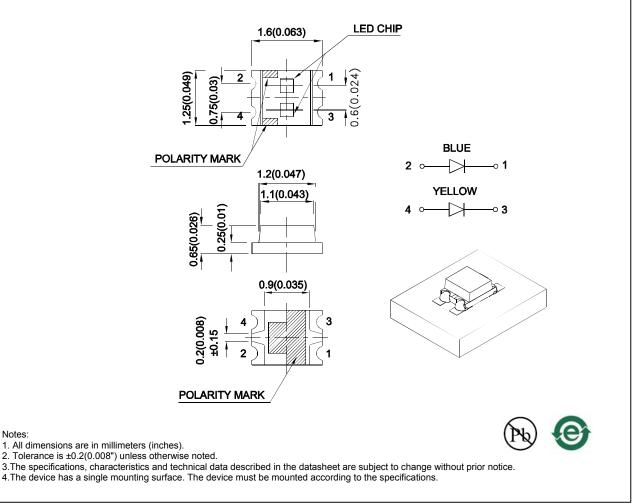
Part Number: APTB1612LVBDSYKJ3C

Blue Super Bright Yellow

Descriptions

- The Blue source color devices are made with InGaN Light Emitting Diode.
- The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAO4584 **APPROVED: Wynec**

Notes:

REV NO: V.1B CHECKED: Allen Liu DATE: AUG/04/2015 DRAWN: M.Liu

PAGE: 1 OF 6 ERP: 1203015180

Selection Guide Part No. Emitting Color (Material) Lens Type @ 2mA						
	3 1 1 1 1		Min.	Тур.	201/2	
APTB1612LVBDSYKJ3C	Blue (InGaN)		10	20	120°	
	Super Bright Yellow (AlGaInP)	Water Clear	20	35		

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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

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

Symbol	Parameter	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Blue Super Bright Yellow		465 590		nm	I⊧=2mA	
λD [1]	Dominant Wavelength	Blue Super Bright Yellow		470 590		nm	I⊧=2mA	
Δλ1/2	Spectral Line Half-width	Blue Super Bright Yellow		22 20		nm	I⊧=2mA	
С	Capacitance	Blue Super Bright Yellow		100 45		pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	Blue Super Bright Yellow	2.2 1.5	2.65 1.85	3.0 2.1	V	I⊧=2mA	
lr	Reverse Current	Blue Super Bright Yellow			50 10	uA	VR = 5V	

Electrical / Optical Characteristics at TA=25°C

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

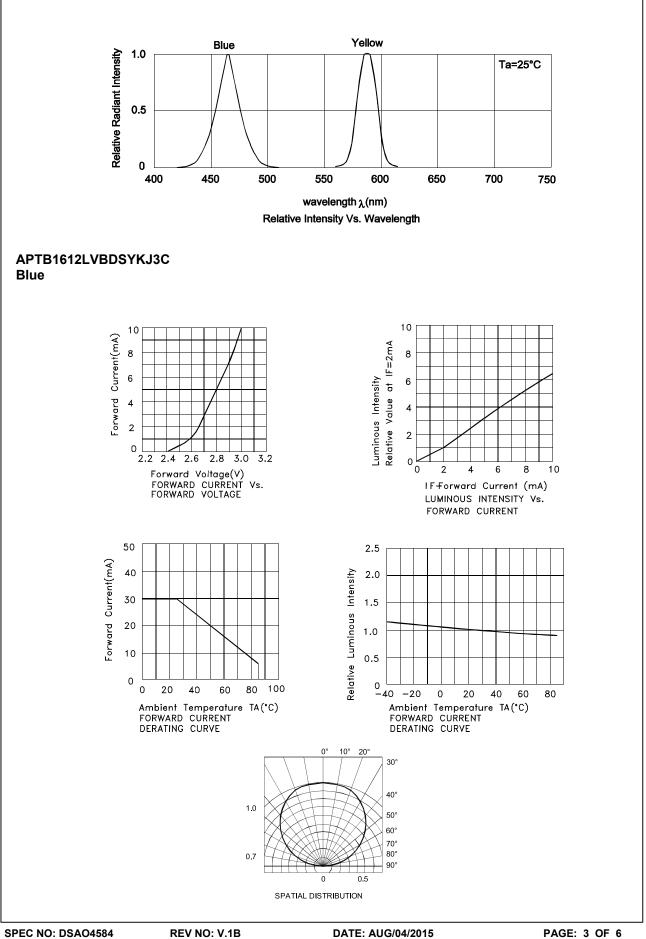
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

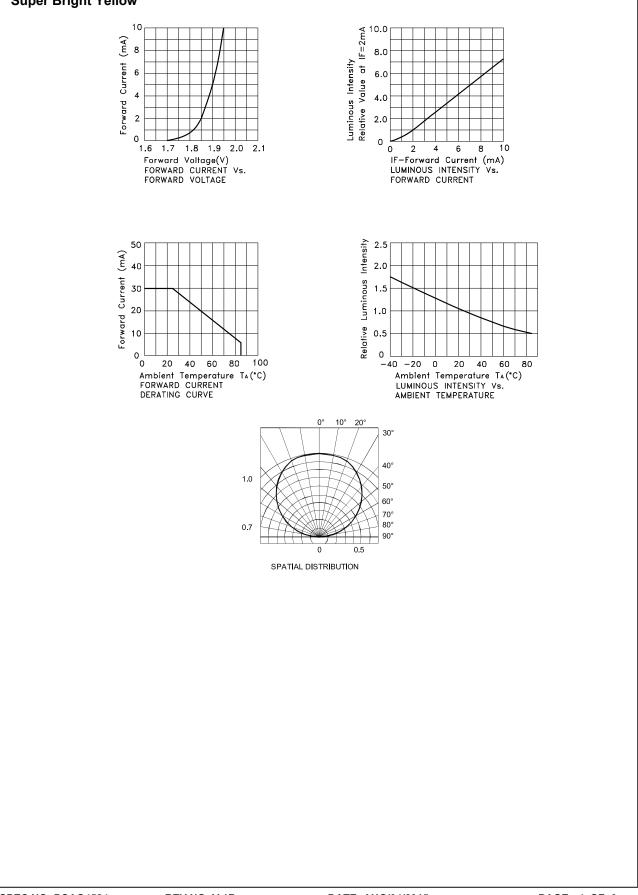
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Super Bright Yellow	Units			
Power dissipation	90	63	mW			
DC Forward Current	30	30	mA			
Peak Forward Current [1]	100	140	mA			
Electrostatic Discharge Threshold (HBM)	250	3000	V			
Reverse Voltage	5		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.

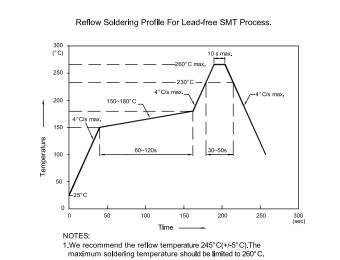


Super Bright Yellow



APTB1612LVBDSYKJ3C

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.

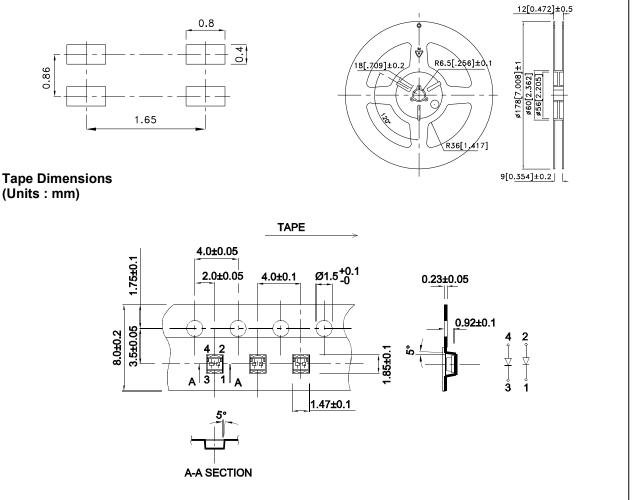


2 Don't cause stress to the epoxy resin while it is exposed

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

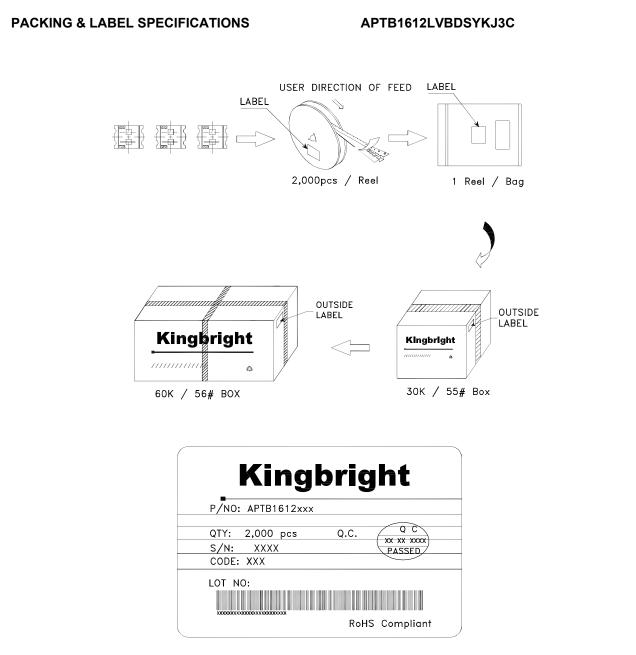






REV NO: V.1B CHECKED: Allen Liu DATE: AUG/04/2015 DRAWN: M.Liu

PAGE: 5 OF 6 ERP: 1203015180



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