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.

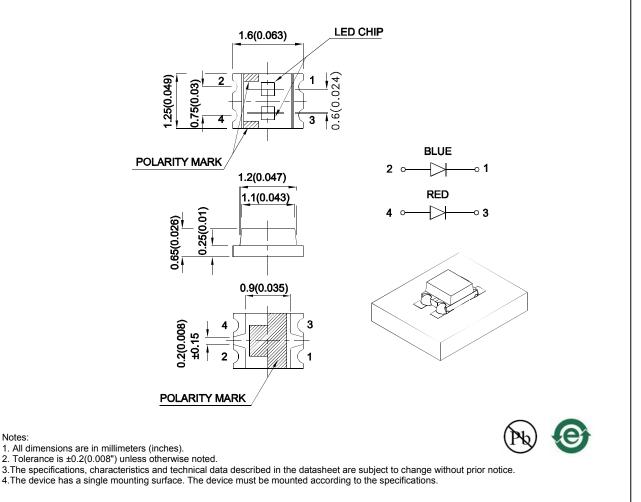
Part Number: APTB1612LVBDSEKJ3C

Blue Hyper Red

Descriptions

- The Blue source color devices are made with InGaN Light Emitting Diode.
- The Hyper Red 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: DSAO4583 APPROVED: Wynec REV NO: V.1A CHECKED: Allen Liu DATE: AUG/04/2015 DRAWN: M.Liu PAGE: 1 OF 6 ERP: 1203015179

Selection Guide Viewing lv (mcd) [2] @ 2mA Angle [1] Part No. **Emitting Color (Material)** Lens Type 201/2 Min. Тур. 10 20 Blue (InGaN) *10 *20 APTB1612LVBDSEKJ3C Water Clear 120° 50 120 Hyper Red (AlGaInP) *20 *40

Notes: 1. θ1/2 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	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Red		465 640		nm	IF=2mA
λD [1]	Dominant Wavelength	Blue Hyper Red		470 625		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Red		22 20		nm	IF=2mA
С	Capacitance	Blue Hyper Red		100 27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue Hyper Red	2.2 1.5	2.65 1.8	3.0 2.1	V	IF=2mA
lr	Reverse Current	Blue Hyper Red			50 10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

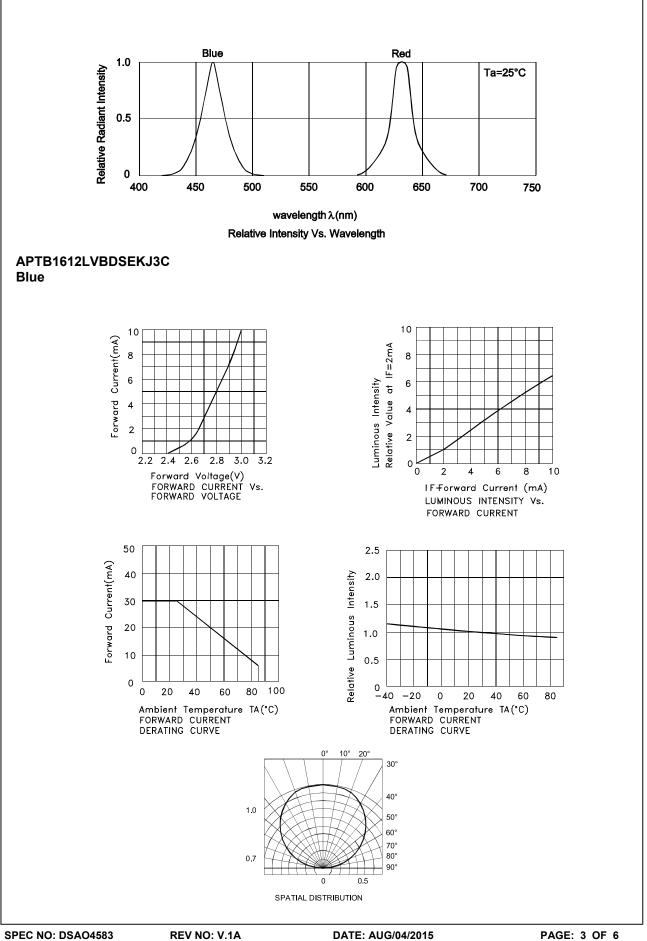
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

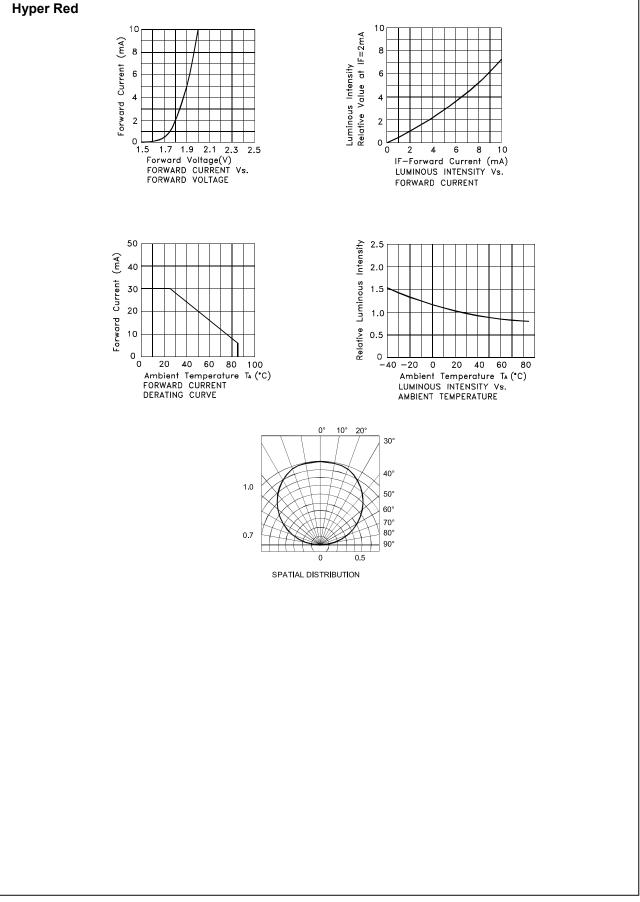
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Red	Units		
Power dissipation	90	63	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	100	150	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.



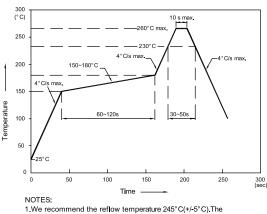




APTB1612LVBDSEKJ3C

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.

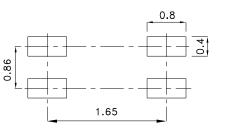


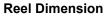


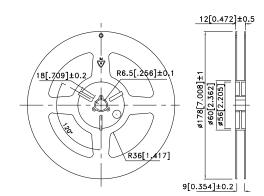
1.We recommend the reflow temperature 245° C(+/-5° C). The maximum soldering temperature should be limited to 260° C. 2 Don't cause stress to the epoxy resin while it is exposed

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

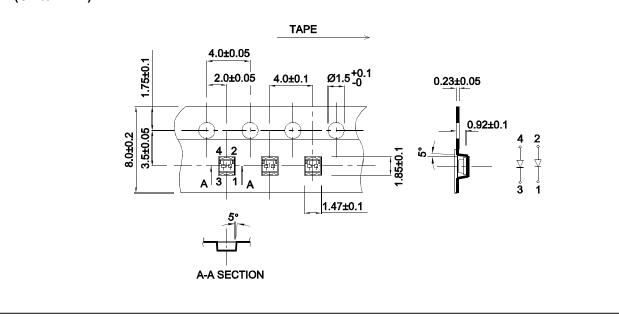






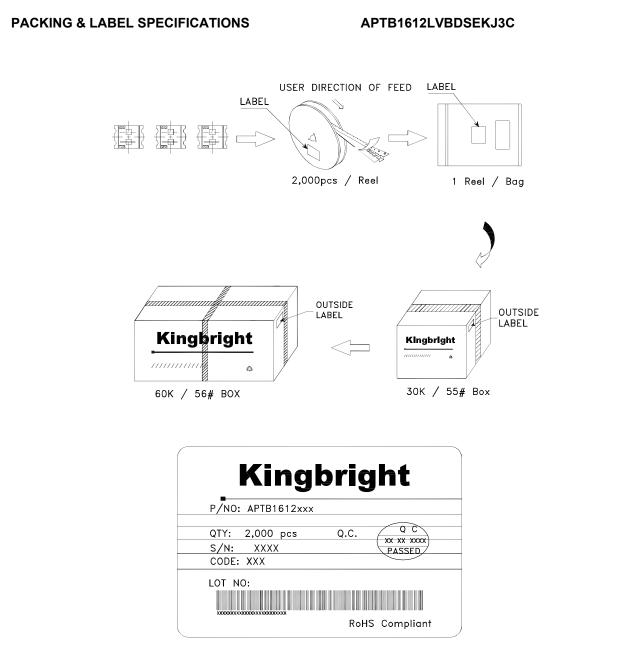


Tape Dimensions (Units : mm)



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