3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: APBL3025EYC-F01

High Efficiency Red Yellow

Features

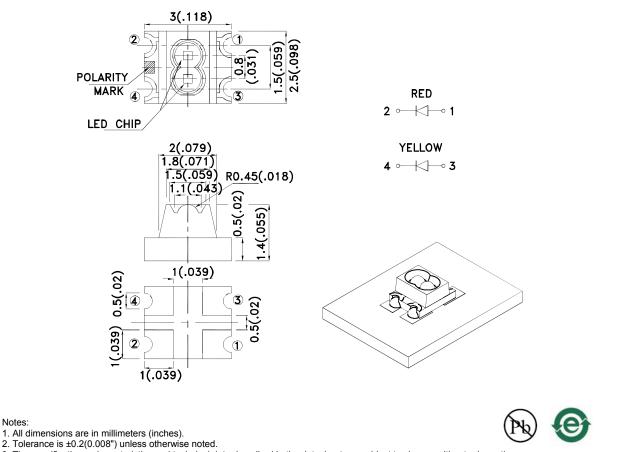
- 3.0mmx2.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- · Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Inner lens type.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- RoHS compliant.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 20 12 High Efficiency Red (GaAsP/GaP) *15 *8 APBL3025EYC-F01 Water Clear 100° 5 15 Yellow (GaAsP/GaP) *5 *15

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	High Efficiency Red Yellow	627 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Yellow	617 588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	I⊧=20mA
С	Capacitance	High Efficiency Red Yellow	15 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Yellow	2 2.1	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	High Efficiency Red Yellow		10 10	uA	VR = 5V

Notes:

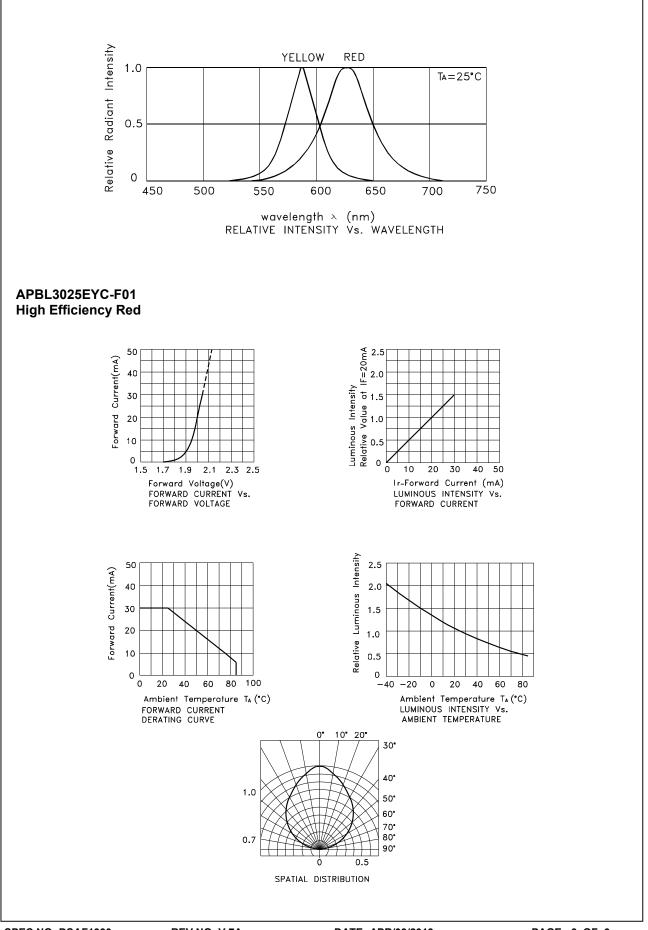
1.Wavelength: +/-1nm.

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

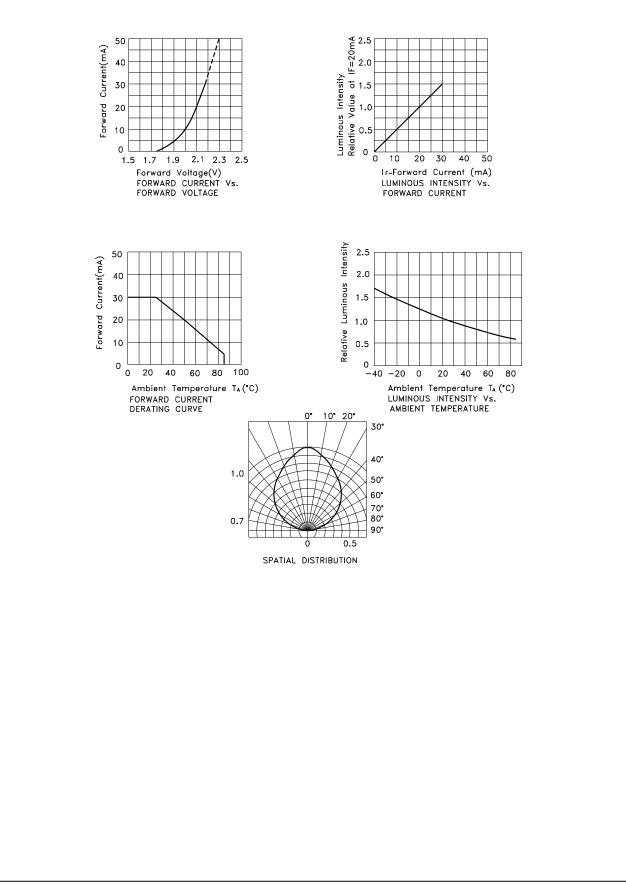
Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red Yellow		Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	160	140	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.



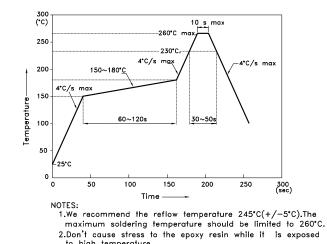
Yellow



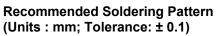
APBL3025EYC-F01

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.

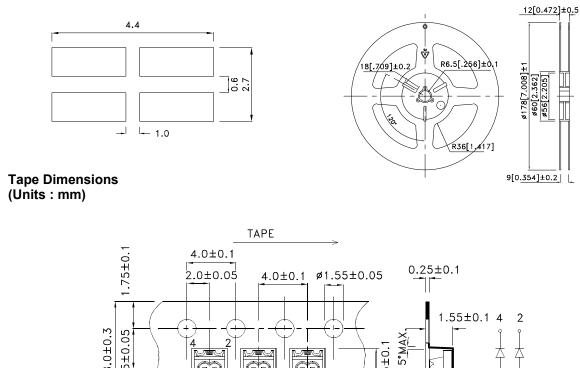


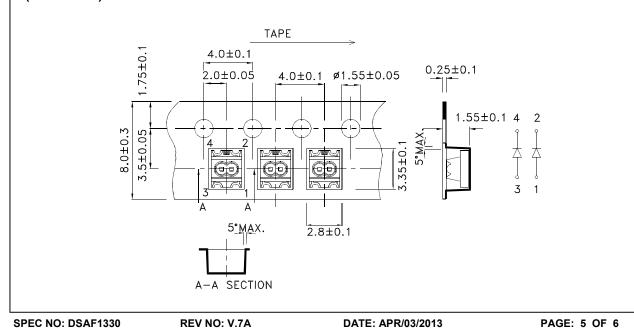
to high temperature. 3.Number of reflow process shall be 2 times or less.



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Reel Dimension

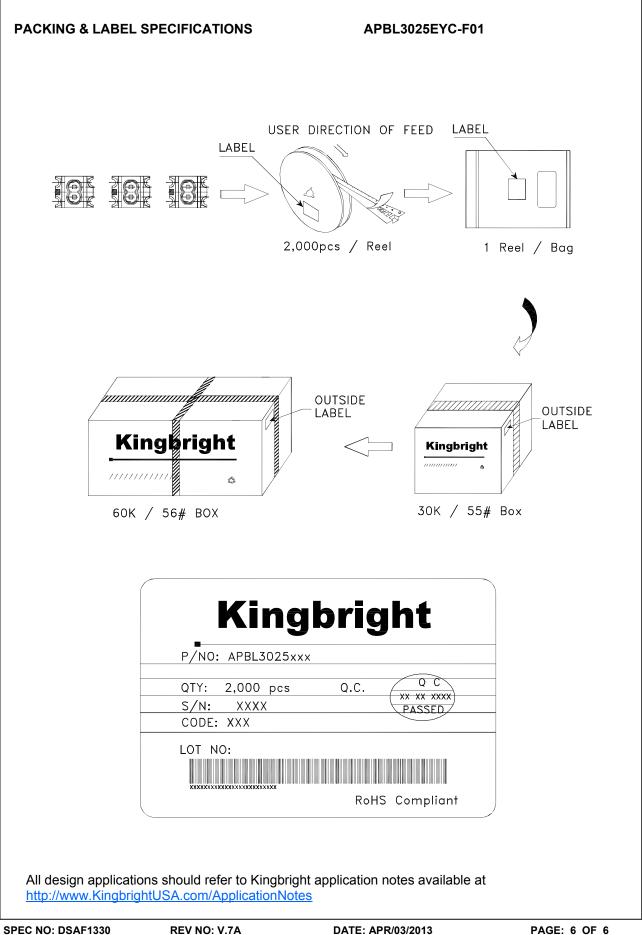




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