

3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: APKB3025ESGC-F01

High Efficiency Red Super Bright Green

Features

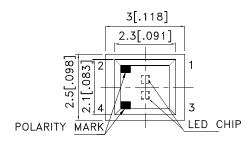
- •3.0mmx2.5mm SMT LED, 1.3mm thickness.
- •Bi -color,low power consumption.
- Wide viewing angle.
- •Ideal for backlight and indicator.
- •Various colors and lens types available.
- ●Package: 2000pcs / reel.
- •Moisture sensitivity level : level 4.
- ●RoHS compliant.

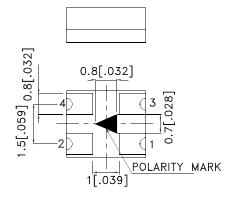
Description

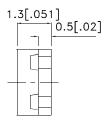
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

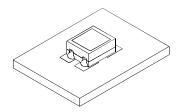
The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





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REV NO: V.6 CHECKED: Allen Liu **DATE: MAR/27/2009** DRAWN: Y.F.Lu

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APKB3025ESGC-F01	High Efficiency Red (GaAsP/GaP)	WATER CLEAR	10	20	120°
	Super Bright Green (GaP)	WATER CLEAR	10	20	

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	I==20mA
λD [1]	Dominant Wavelength	High Efficiency Red Super Bright Green	625 568		nm	I==20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Super Bright Green	45 30		nm	I==20mA
С	Capacitance	High Efficiency Red Super Bright Green	15 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red Super Bright Green	2 2.2	2.5 2.5	V	I==20mA
lr	Reverse Current	High Efficiency Red Super Bright Green		10 10	uA	V _R = 5V

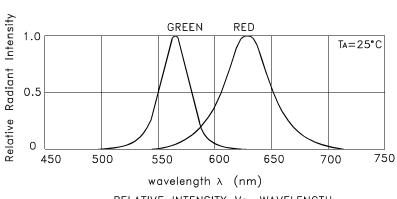
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	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				

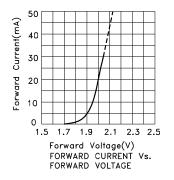
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

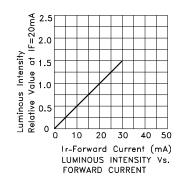
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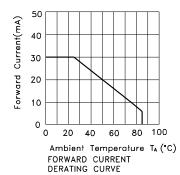


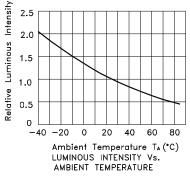
RELATIVE INTENSITY Vs. WAVELENGTH

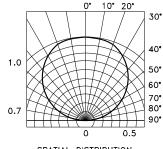
APKB3025ESGC-F01 High Efficiency Red









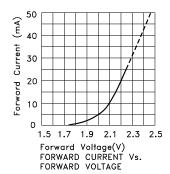


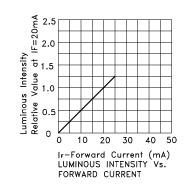
SPATIAL DISTRIBUTION

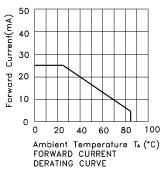
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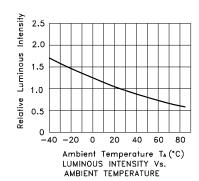
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Super Bright Green



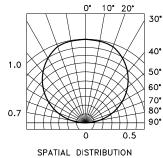






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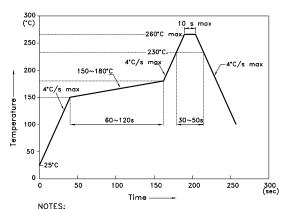
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APKB3025ESGC-F01

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.



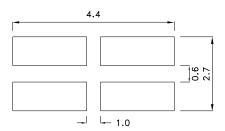
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

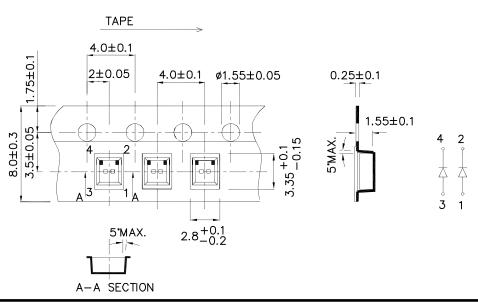
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

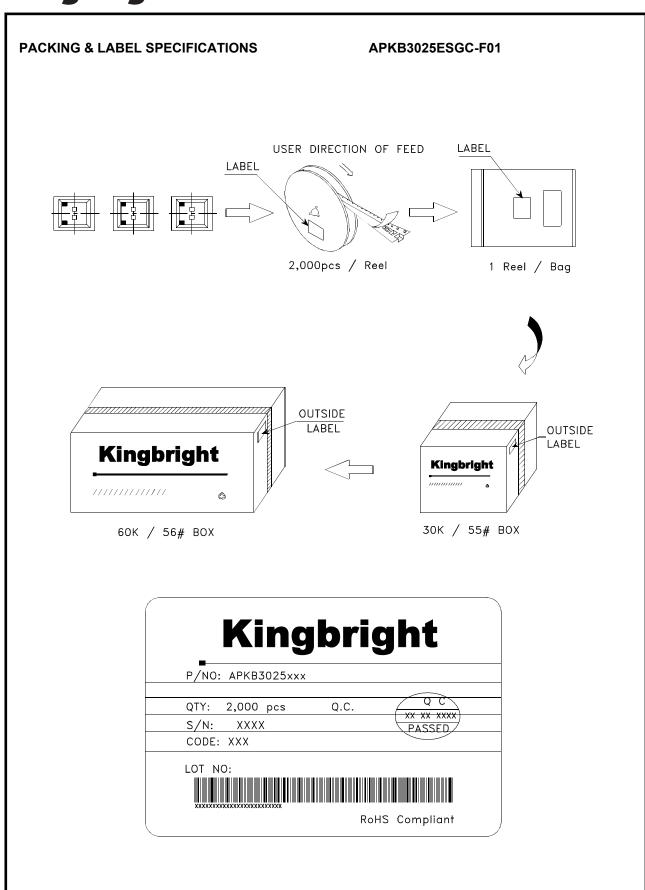
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)



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