

3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: KPB-3025NSGC

Pure Orange Super Bright Green

Features

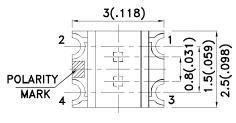
- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi-color,Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

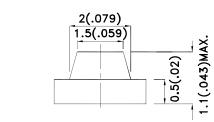
Description

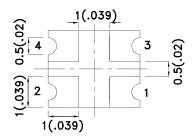
The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange Light Emitting Diode.

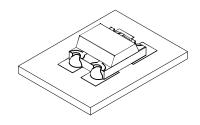
The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.
- 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.

SPEC NO: DSAA5776 APPROVED: WYNEC

REV NO: V.11 CHECKED: Allen Liu **DATE: OCT/08/2010**

DRAWN: J.Yu





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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
KPB-3025NSGC	Pure Orange (GaAsP/GaP)	Water Clear	8	15	120°
	Super Bright Green (GaP)	Water Clear	8	15	

- 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Pure Orange Super Bright Green	607 565		nm IF=20mA	
λD [1]	Dominant Wavelength	Pure Orange Super Bright Green	606 568		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Pure Orange Super Bright Green	35 30		nm	I==20mA
С	Capacitance	Pure Orange Super Bright Green	15 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Pure Orange Super Bright Green	2.05 2.2	2.5 2.5	V	I==20mA
lR	Reverse Current	Pure Orange Super Bright Green		10 10	uA	V _R = 5V

Notes:

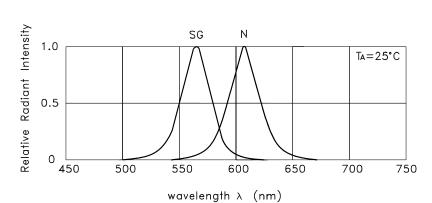
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Pure Orange	Super Bright Green	Units		
Power dissipation	62.5	62.5	mW		
DC Forward Current	25	25	mA		
Peak Forward Current [1]	145	140	mA		
Reverse Voltage	5				
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

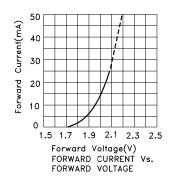
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

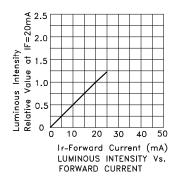
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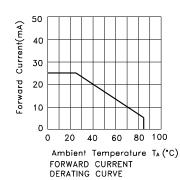


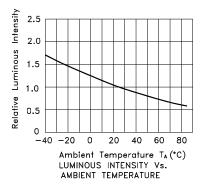
RELATIVE INTENSITY Vs. WAVELENGTH

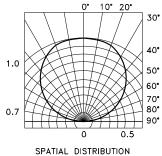
KPB-3025NSGC Pure Orange







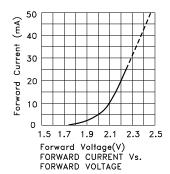


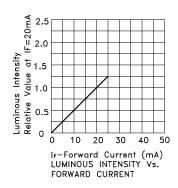


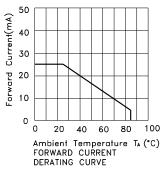
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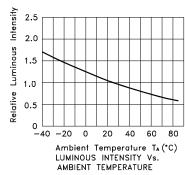
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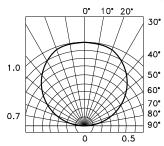
Super Bright Green











SPATIAL DISTRIBUTION

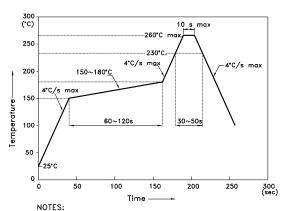
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KPB-3025NSGC

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.



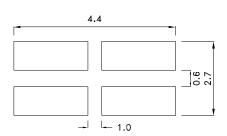
- NOTES:

 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.

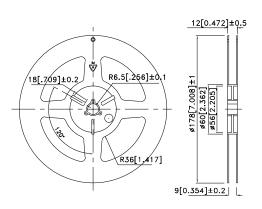
 3.Number of reflow process shall be 2 times or less.

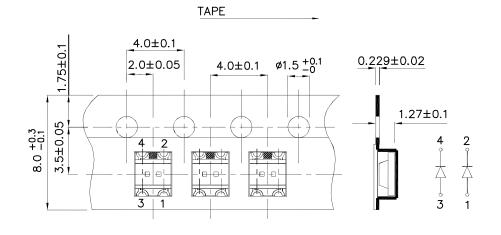
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

Reel Dimension

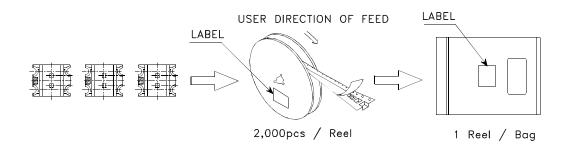


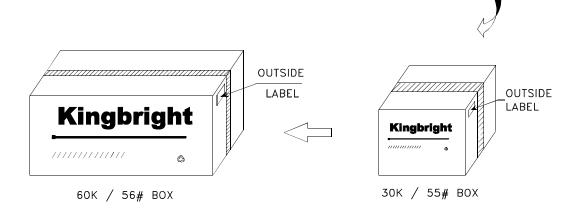


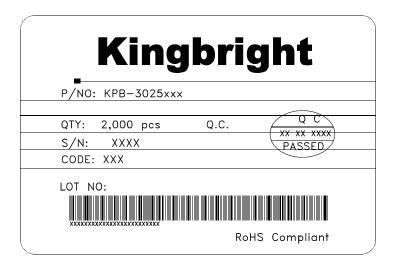
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PACKING & LABEL SPECIFICATIONS

KPB-3025NSGC







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