

3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KPBA-3010YSGC

Yellow

Super Bright Green

Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000 pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability
- RoHS compliant.

Description

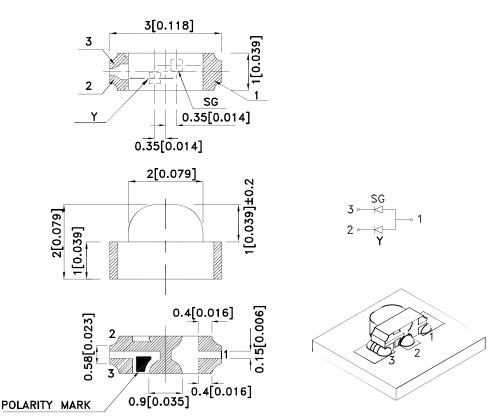
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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

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Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") 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: DSAB7716 **REV NO: V.12A DATE: FEB/02/2012** APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPBA-3010YSGC	Yellow (GaAsP/GaP)	· Water Clear	5	8	- 140°
			*5	*8	
	Super Bright Green (GaP)		8	15	
			*5	*15	

- 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%.

 * 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	Yellow Super Bright Green	590 565		nm	IF=20mA
λD [1]	Dominant Wavelength	Yellow Super Bright Green	588 568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Yellow Super Bright Green	35 30		nm	IF=20mA
С	Capacitance	Yellow Super Bright Green	20 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Yellow Super Bright Green	2.1 2.2	2.5 2.5	V	IF=20mA
lR	Reverse Current	Yellow Super Bright Green		10 10	uA	VR = 5V

Notes:

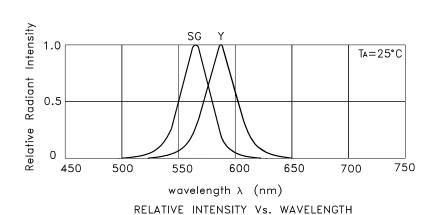
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

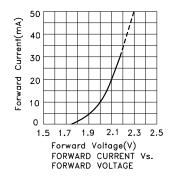
Parameter	Yellow	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	140	140	mA		
Reverse Voltage	5				
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

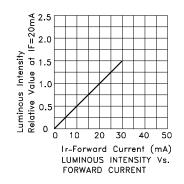
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

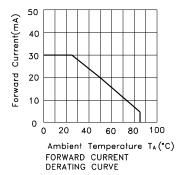
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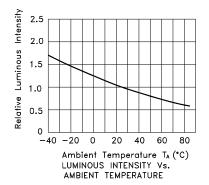


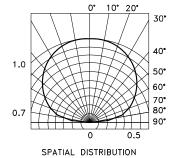
KPBA-3010YSGC Yellow





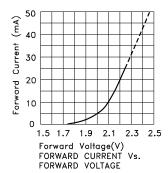


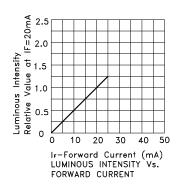


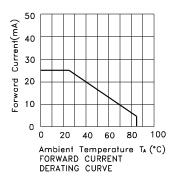


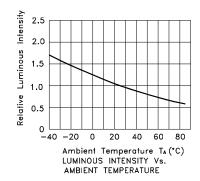
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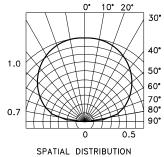
Super Bright Green











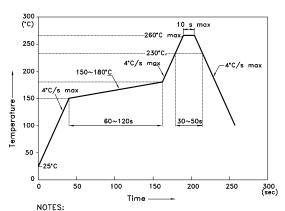
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

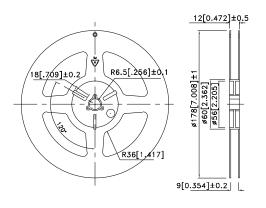
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

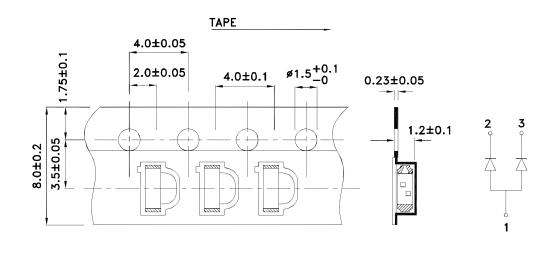
 3.Number of reflow process shall be 2 times or less.

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

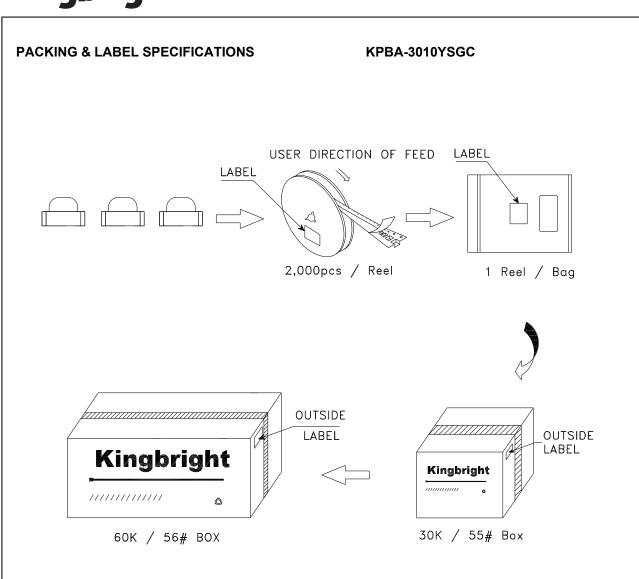
Tape Dimensions (Units : mm)

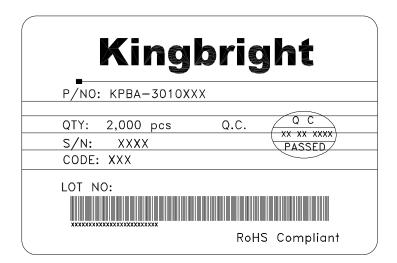
Reel Dimension





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