

1.6x0.2mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KPGA-1602SYC-KA

Super Bright Yellow

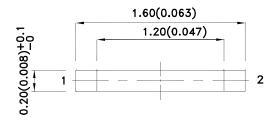
Features

- 1.6mmx0.9mm right angle SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Moisture sensitivity level : level 3.
- Package :2000pcs / reel.
- Tinned pads for improved solderability.
- RoHS compliant.

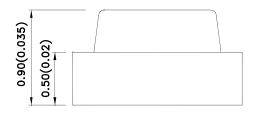
Description

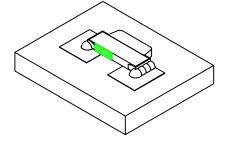
The Super Bright Yellow source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

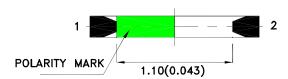
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ 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.





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Selection Guide

Part No.	Dice Lens Type		lv (mo @ 2	Viewing Angle [1]	
		<i>,</i> .	Min.	Тур.	201/2
KPGA-1602SYC-KA	Super Bright Yellow (AlGaInP)	Water Clear	40	75	160°(H) 120°(V)

- 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%.
 3. 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	Super Bright Yellow	591		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	15		nm	IF=20mA
VF [2]	Forward Voltage	Super Bright Yellow	2.05	2.4	V	IF=20mA
lR	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

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

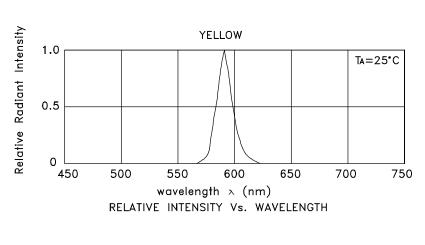
Absolute Maximum Ratings at TA=25°C

Absolute Maximum Natings at 1A-20 0				
Parameter	Super Bright Yellow	Units		
Power dissipation	48	mW		
DC Forward Current	20	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +100°C			

Note:

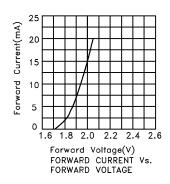
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

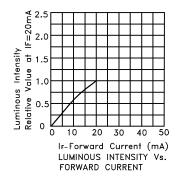
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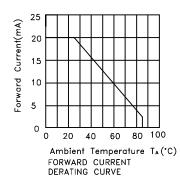


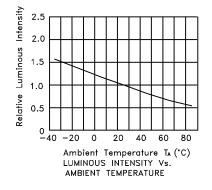
Super Bright Yellow

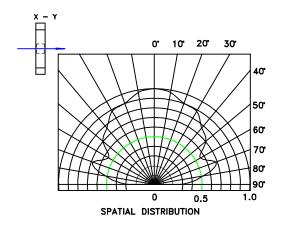
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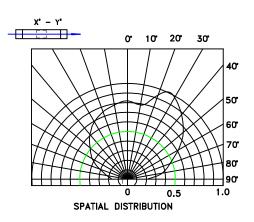










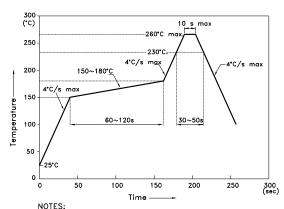


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



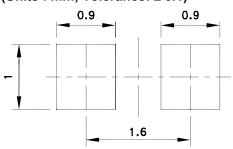
- NOTES:

 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.

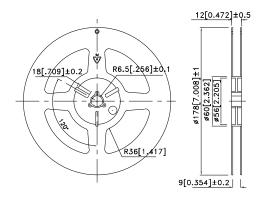
 3.Number of reflow process shall be 2 times or less.

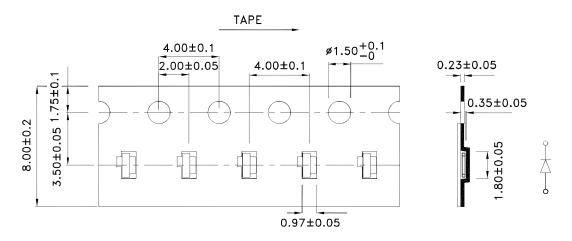
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

Reel Dimension

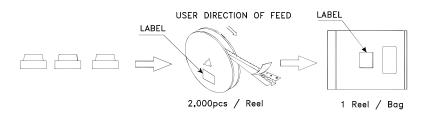


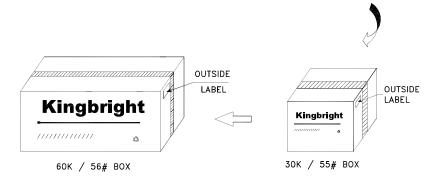


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PACKING & LABEL SPECIFICATIONS

KPGA-1602SYC-KA







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