

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608LSYCK/J3-PF

Super Bright Yellow

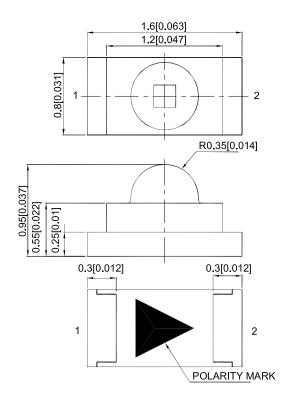
Features

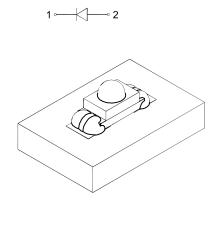
- 1.6mmX0.8mm SMT LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

Description

The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.

Package Dimensions





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- 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.

REV NO: V.3B

CHECKED: Allen Liu

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
APTD1608LSYCK/J3-PF	Super Bright Yellow (AlGalnP)	Water Clear	30	55	60°

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	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow		590		nm	IF=2mA
λD [1]	Dominant Wavelength	Super Bright Yellow		590		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow		20		nm	IF=2mA
С	Capacitance	Super Bright Yellow		45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	1.5	1.85	2.1	V	IF=2mA
lr	Reverse Current	Super Bright Yellow			10	uA	VR=5V

- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

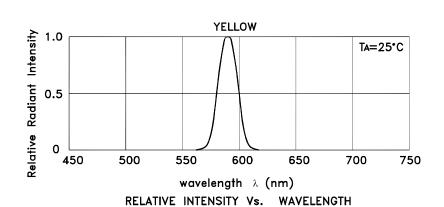
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units		
Power dissipation	63	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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

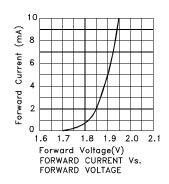
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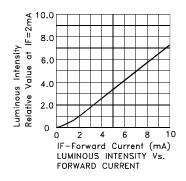
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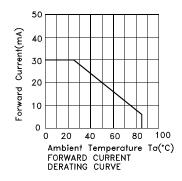


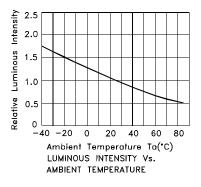
Super Bright Yellow

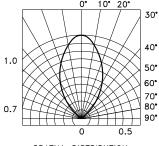
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SPATIAL DISTRIBUTION

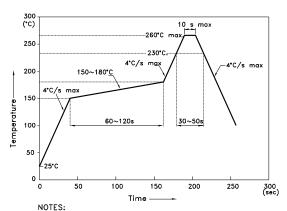
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



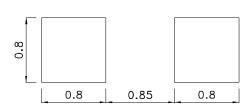
- NOTES:

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

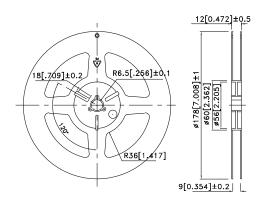
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

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



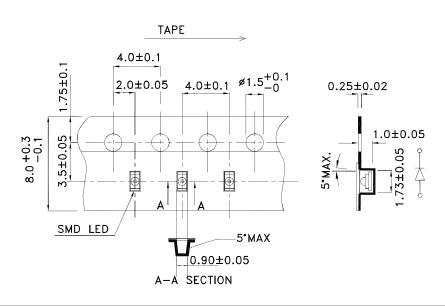
Reel Dimension



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Tape Dimensions (Units : mm)

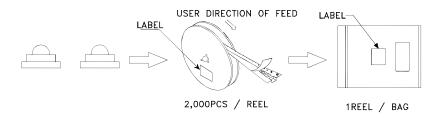


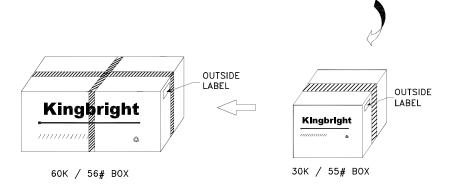
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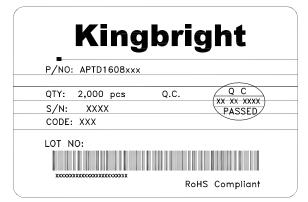


PACKING & LABEL SPECIFICATIONS

APTD1608LSYCK/J3-PF







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