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Kingbright APT1608LSYCK/J3-PRV

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Kingbright

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608LSYCK/J3-PRV

Super Bright Yellow

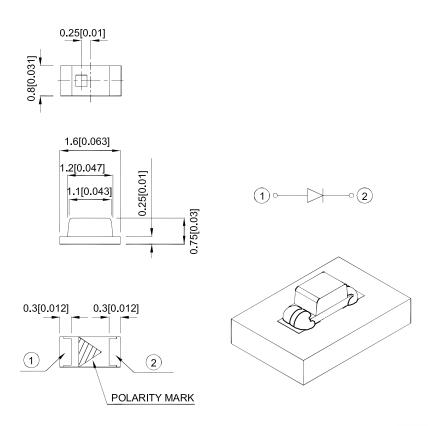
Features

- 1.6mmX0.8mm SMT LED, 0.75mm 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



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 4. The device has a single mounting surface. The device must be mounted according to the specifications.





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Datasheet of APT1608LSYCK/J3-PRV - LED YELLOW CLEAR 0603 SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
		-	Min.	Тур.	201/2
APT1608LSYCK/J3-PRV	PT1608LSYCK/J3-PRV Super Bright Yellow (AlGaInP)		15	25	120°

- 1. θ 1/2 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	

Notes:

- 1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. 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

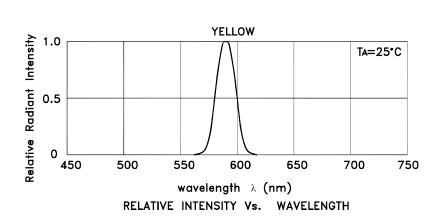
Parameter	Super Bright Yellow			
Power dissipation	63	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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

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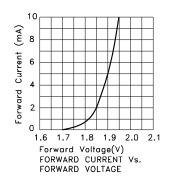


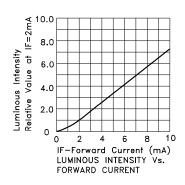
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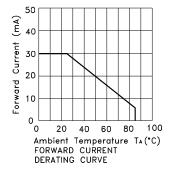


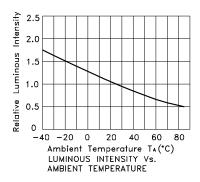
Super Bright Yellow

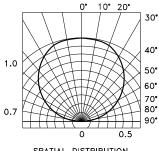
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SPATIAL DISTRIBUTION

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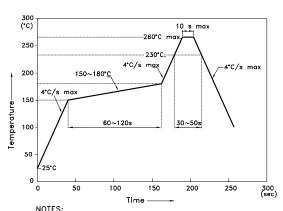


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APT1608LSYCK/J3-PRV

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.



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.

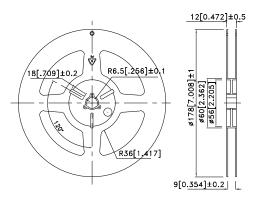
3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern

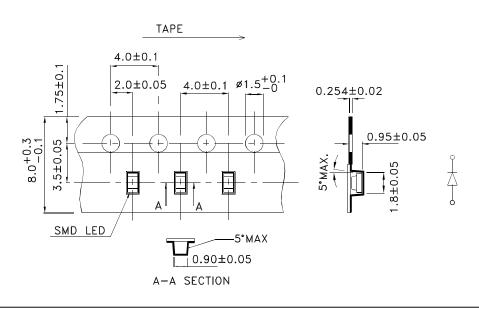
(Units: mm; Tolerance: ± 0.1)

ω 0.8 0.85 0.8

Reel Dimension



Tape Dimensions (Units : mm)



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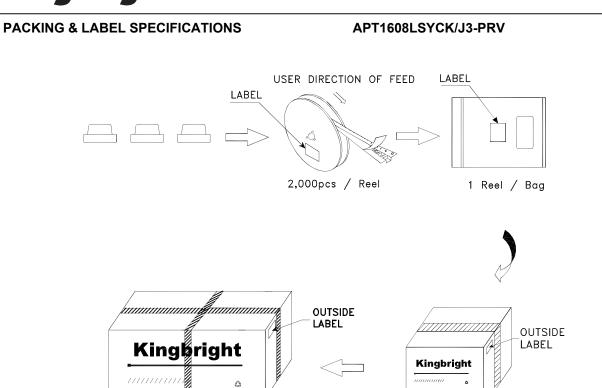


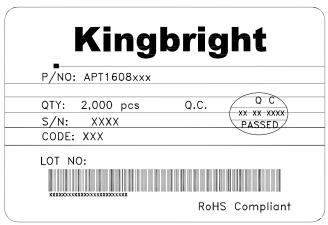
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Datasheet of APT1608LSYCK/J3-PRV - LED YELLOW CLEAR 0603 SMD

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