

Excellent Integrated System Limited

Stocking Distributor

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Kingbright APTD1608LSYCK/J3-PF

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608LSYCK/J3-PF

Super Bright Yellow

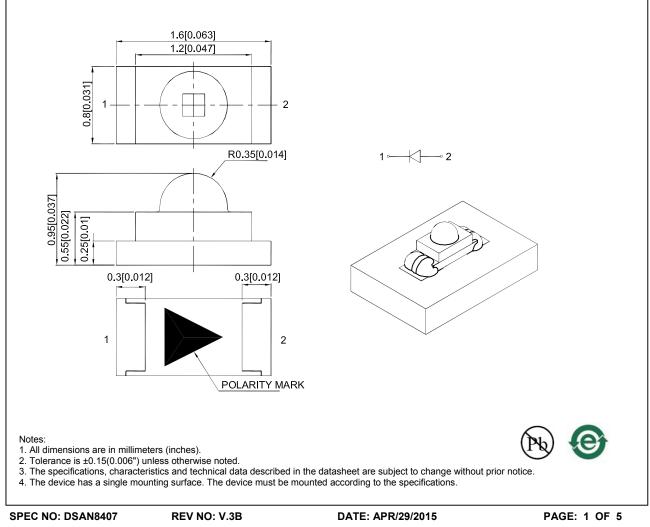
Features

- 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





Selection Guide

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

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
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	I⊧=2mA
λD [1]	Dominant Wavelength	Super Bright Yellow		590		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow		20		nm	I⊧=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	I⊧=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.

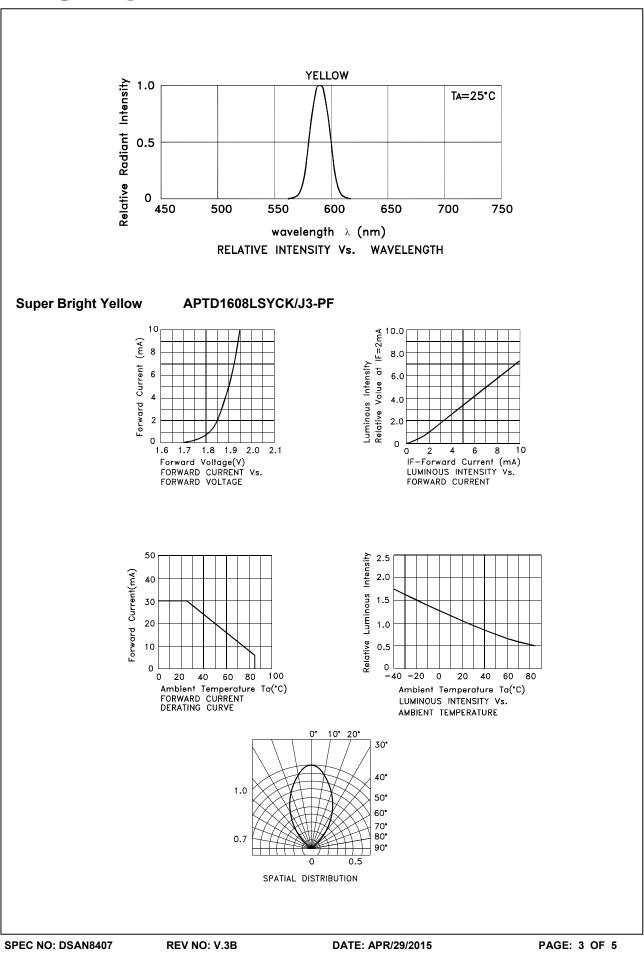
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	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				

Note:

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



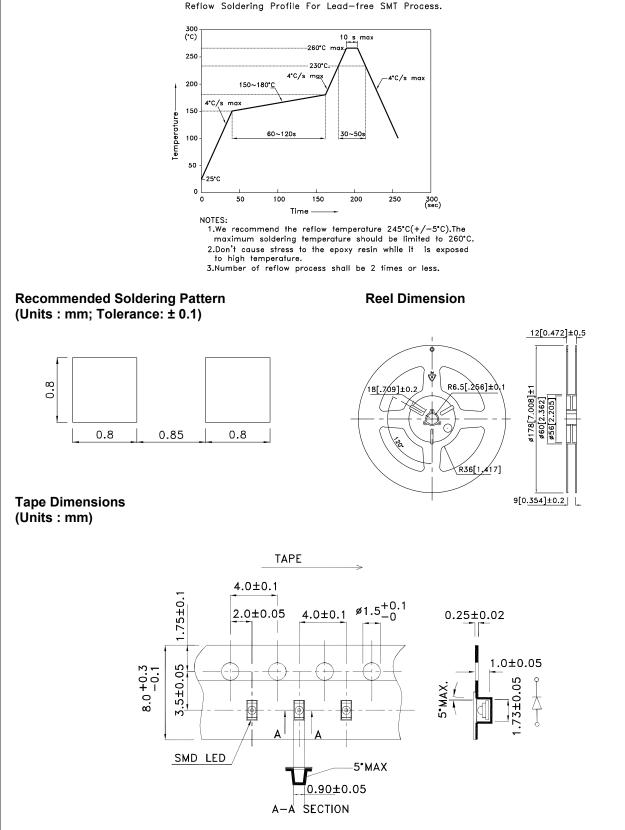




APTD1608LSYCK/J3-PF

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.

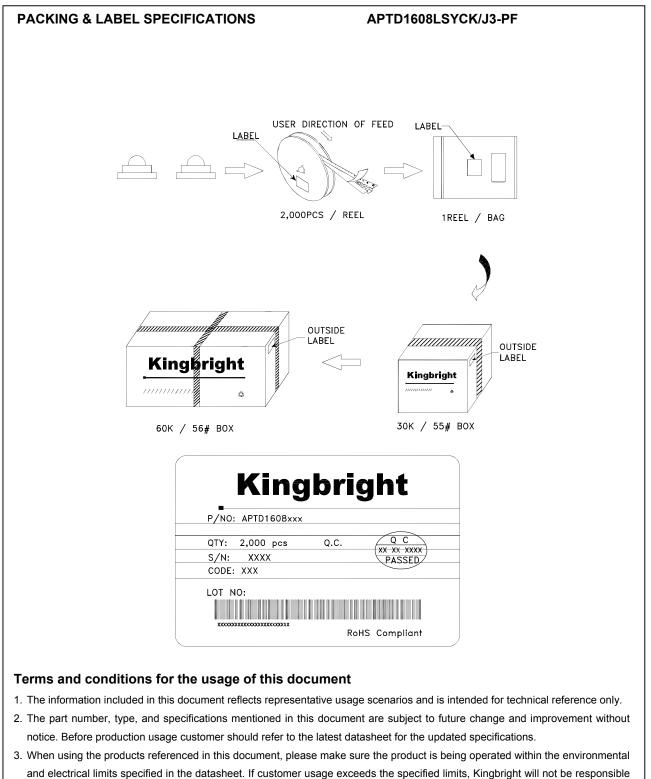


SPEC NO: DSAN8407



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for any subsequent issues.4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with

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