

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMD 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.

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608LSYCK/J3-PRV

Super Bright Yellow

Descriptions

- The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAN8389 APPROVED: Wynec REV NO: V.3B CHECKED: Allen Liu DATE: AUG/04/2016 DRAWN: L.T.Zhang PAGE: 1 OF 5 ERP: 1203014457

Selection Guide

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

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	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
IR	Reverse Current	Super Bright Yellow			10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to CIE127-2007 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	Values	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			

Notes:

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

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



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.



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