1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608SYCK

Super Bright Yellow

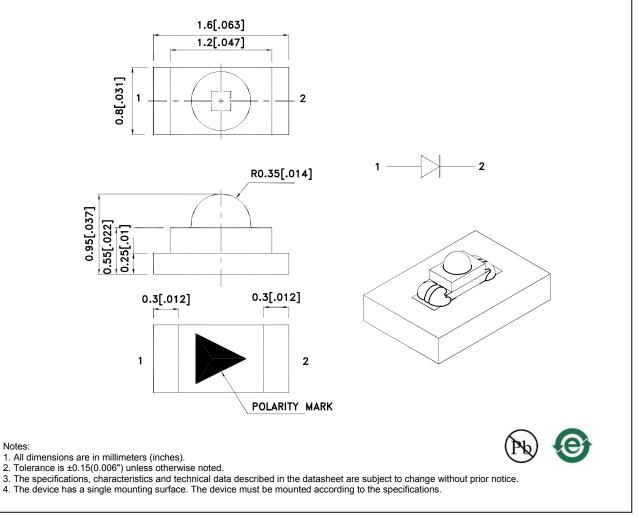
Features

- 1.6mmX0.8mm SMT LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



SPEC NO: DSAM9991 APPROVED: WYNEC REV NO: V.1B CHECKED: Allen Liu DATE: MAY/09/2013 DRAWN: Y.Liu PAGE: 1 OF 5 ERP: 1203009848

Selection Guide

Selection Guide					
Part No.	Dice Le	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD1608SYCK	Super Bright Yellow (AlGaInP)	Water Clear	200	450	60°

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 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=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	586		594	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow		20		nm	IF=20mA
С	Capacitance	Super Bright Yellow		20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Yellow		2	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Yellow			10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

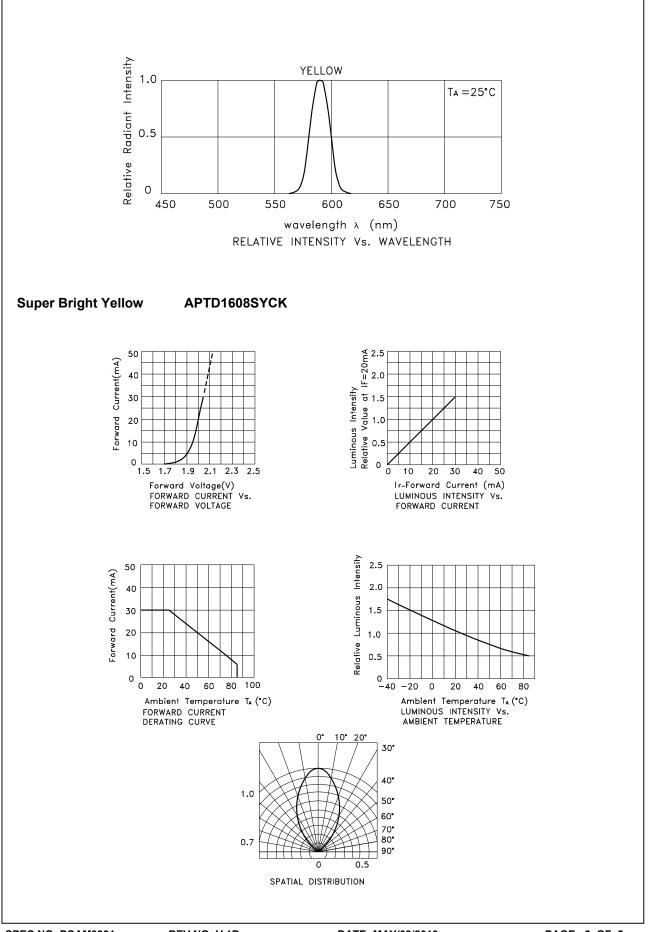
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units			
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	175	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

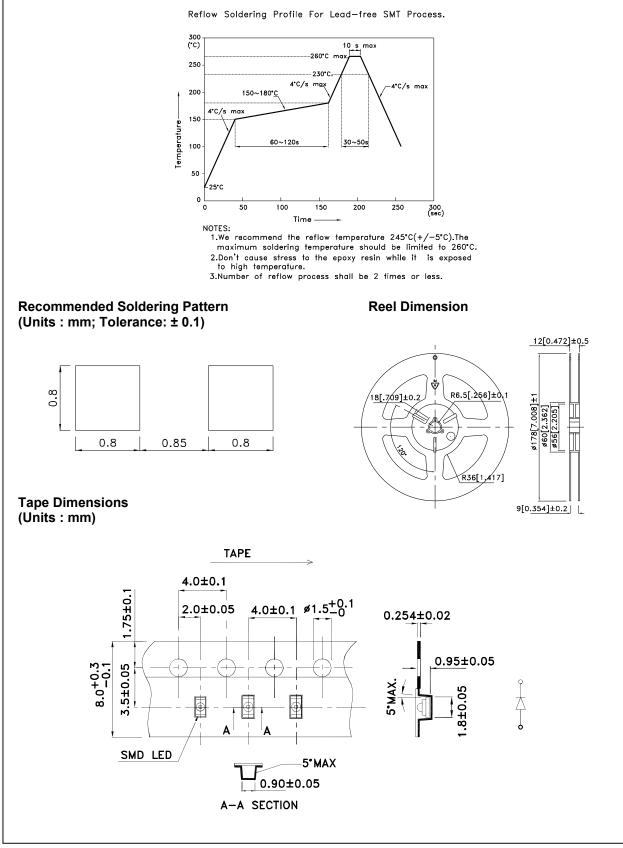
Note:

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



APTD1608SYCK

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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