### 1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608SYCK

Super Bright Yellow

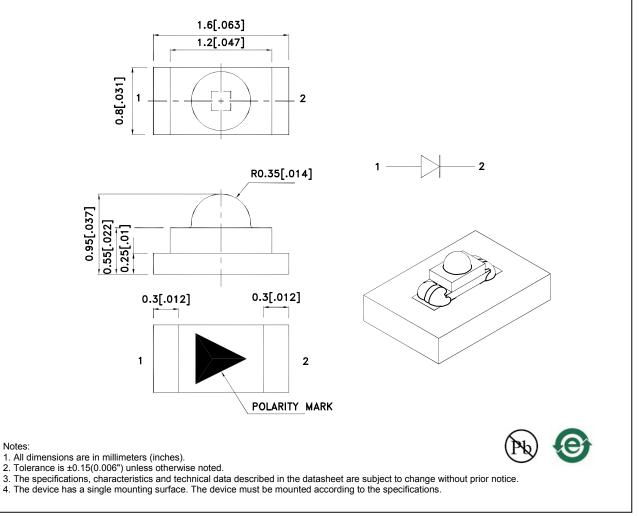
#### Features

- 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.  $\theta$ 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.

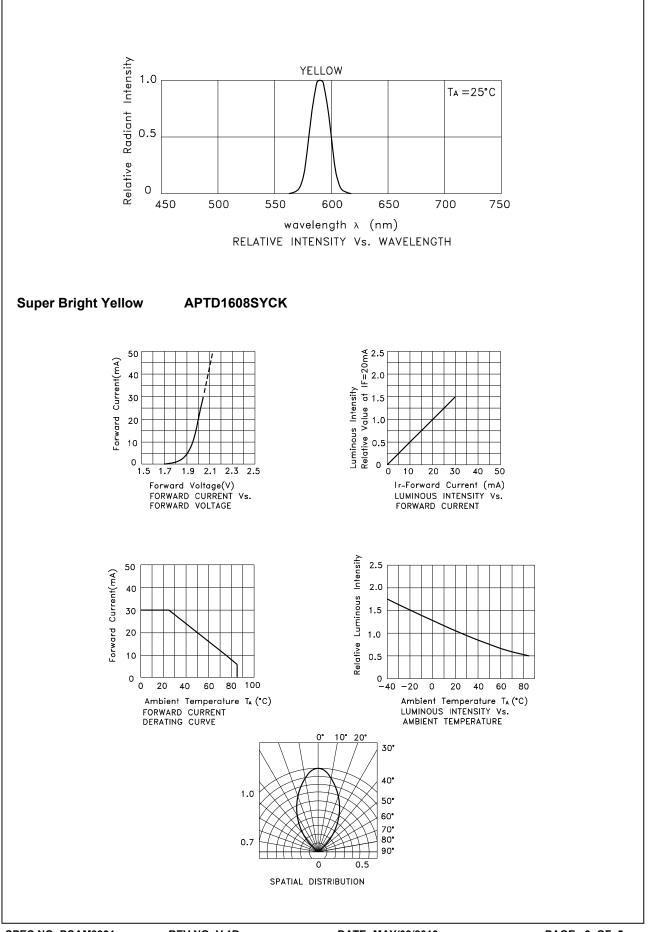
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### 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				

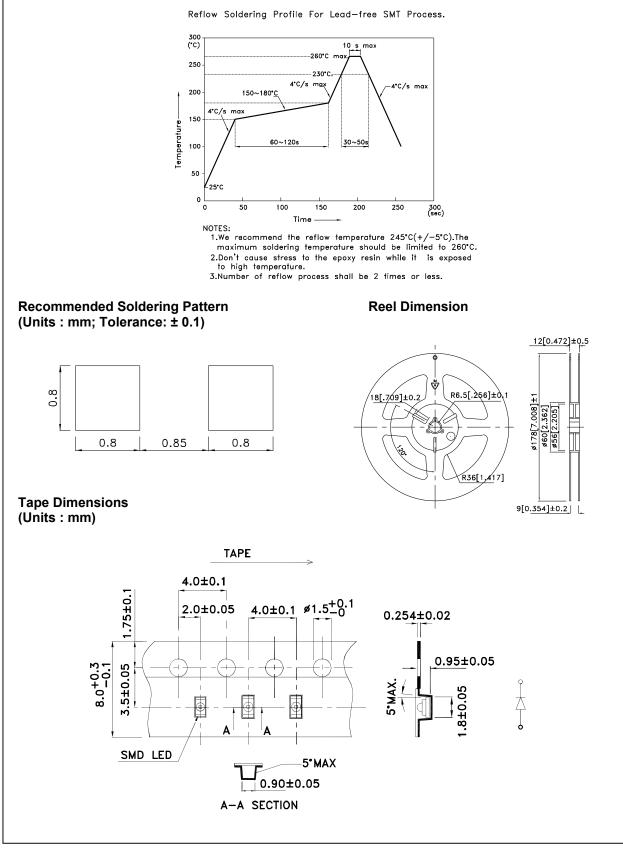
Note:

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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