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

Part Number: APTD1608SYCK

Super Bright Yellow

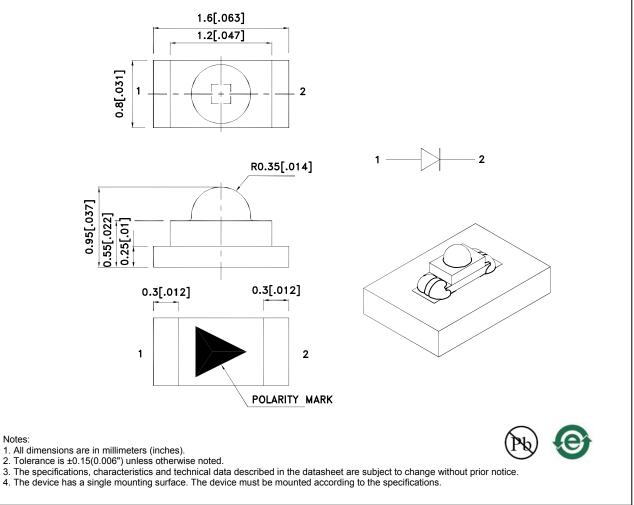
#### Features

- 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**



REV NO: V.2 CHECKED: Allen Liu DATE: APR/15/2011 DRAWN: J.Yu PAGE: 1 OF 5 ERP: 1203009848

### Selection Guide

Part No.	Dice	Dice Lens Type		Lens Type	lv (mcd) [2] @ 20mA		lv (mcd) [2] @ 20mA		Viewing Angle [1]	
			Min.	Тур.	201/2					
APTD1608SYCK	Super Bright Yellow (AlGaInP)	Water Clear	280	450	60°					

Notes:

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%.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	I⊧=20mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	Vr=5V

Notes:

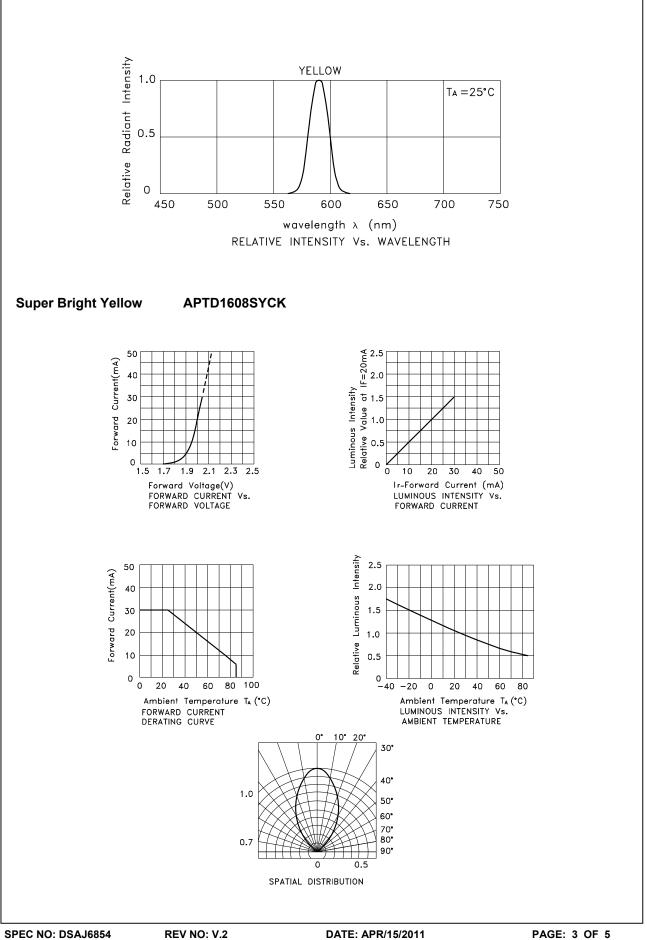
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### 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		

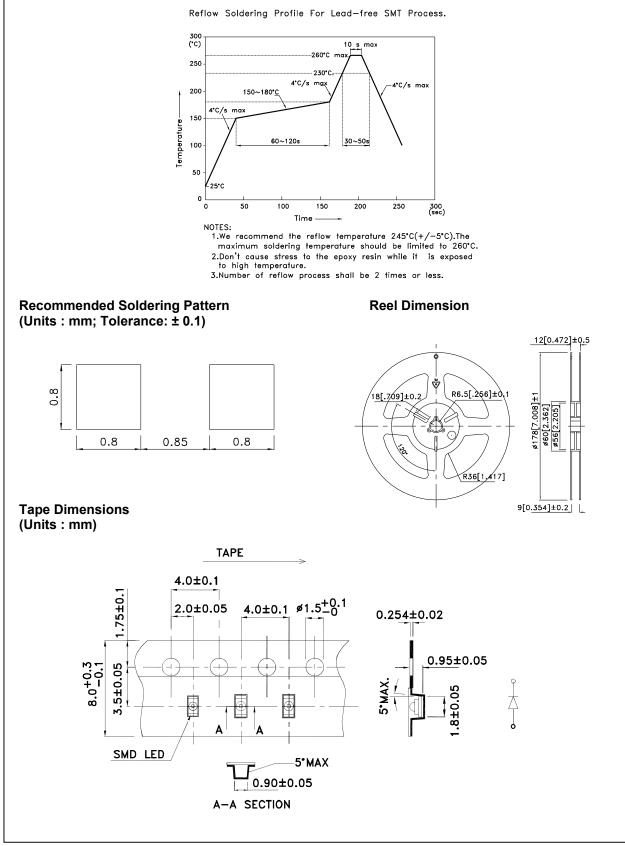
Note:

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.



DATE: APR/15/2011 DRAWN: J.Yu

