3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTR3216SYCK

Super Bright Yellow

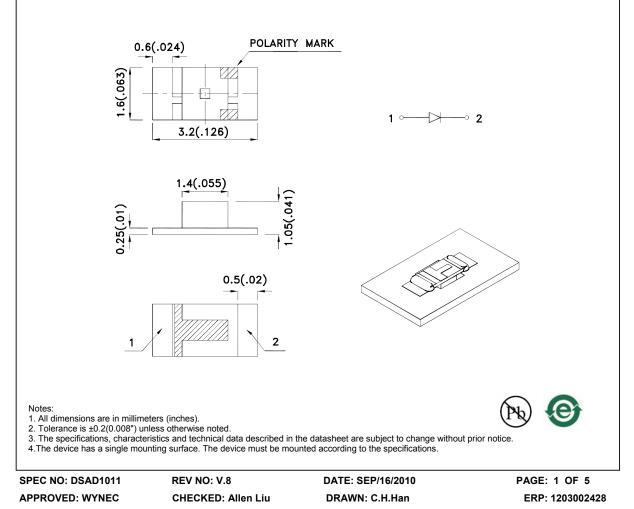
Features

- 3.2mmx1.6mm SMT LED,1.05mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Vavrious 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



Downloaded from Elcodis.com electronic components distributor

| Selection Guide | | | | | |
|-----------------|-------------------------------|-------------|------------------------|------|----------------------|
| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| APTR3216SYCK | Super Bright Yellow (AlGaInP) | Water Clear | 80 | 150 | 120° |

Notes:

01/2 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 | I⊧=20mA |
| IR | Reverse Current | Super Bright Yellow | | 10 | uA | VR=5V |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

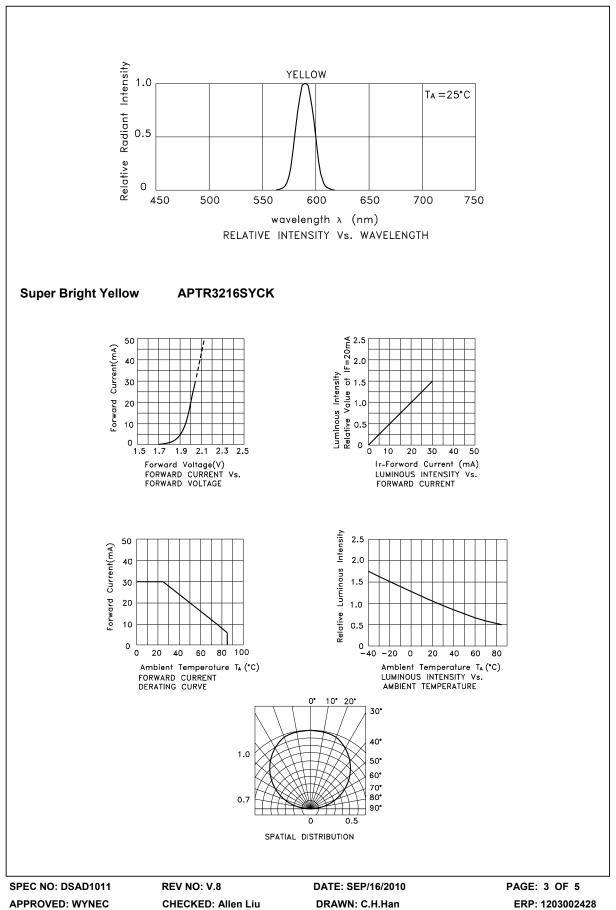
Absolute Maximum Ratings at TA=25°C

| 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.

SPEC NO: DSAD1011 APPROVED: WYNEC

REV NO: V.8 CHECKED: Allen Liu DATE: SEP/16/2010 DRAWN: C.H.Han



APTR3216SYCK

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.

