1.6x0.6mm RIGHT ANGLE SMD CHIP LED LAMP

Super Bright Yellow Part Number: APA1606SYCK

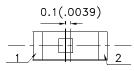
Features

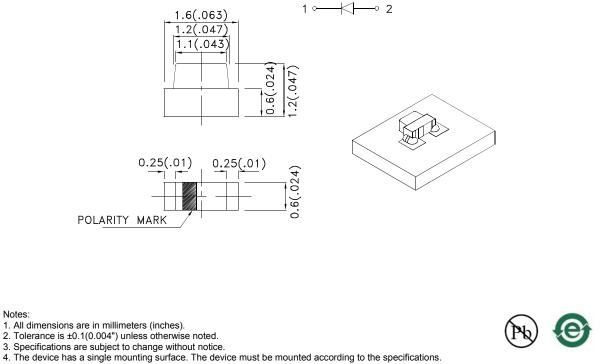
- 1.6mmx0.6mm right angle SMT LED,1.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package :2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions





Notes:

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Selection Guide lv (mcd) [2] @ 20mA Part No. Dice Lens Type Min. Тур. APA1606SYCK Super Bright Yellow (AlGaInP) WATER CLEAR 50 150

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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 |
| 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 | | | |
|--------------------------|---------------------|----|--|--|
| 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:

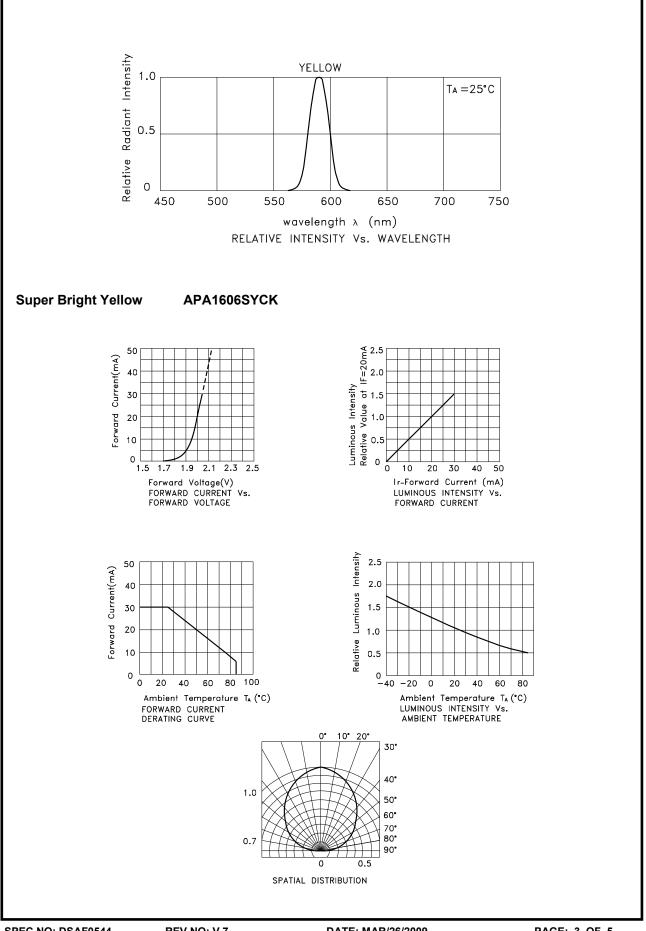
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Viewing

Angle [1]

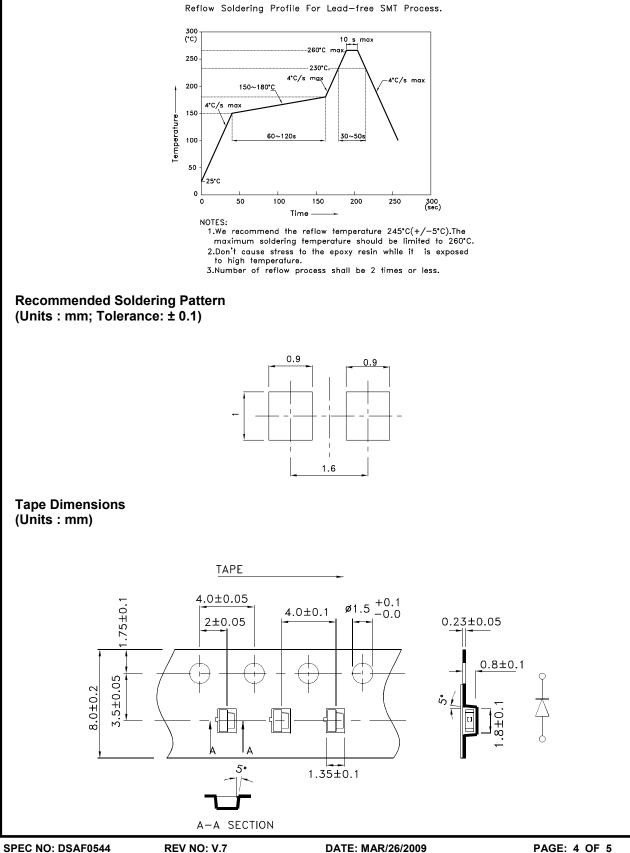
201/2

110°



APA1606SYCK

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.



SPEC NO: DSAF0544 APPROVED: WYNEC

CHECKED: Allen Liu

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