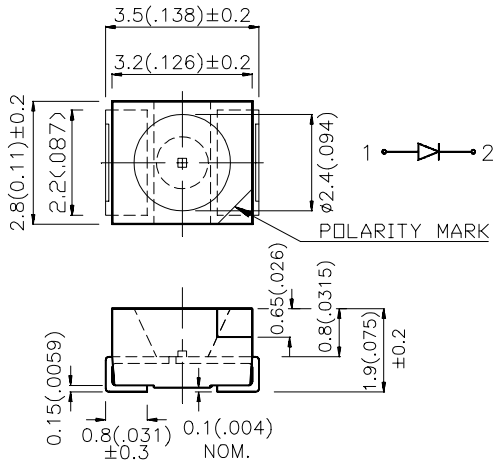


## Package Dimensions

## 3.5x2.8mm SURFACE MOUNT LED LAMP

EA3528SYC

SUPER BRIGHT YELLOW



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Features

1. SINGLE COLOR.
2. SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS
3. AVAILABLE ON TAPE AND REEL.
4. IDEAL FOR BACKLIGHT

## Description

The Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

## Selection Guide

| Part No.  | Emitting Color<br>+Material | $\lambda D(nm)$ | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|-----------|-----------------------------|-----------------|-------------|---------------------|------|------------------|
|           |                             |                 |             | Min.                | Typ. | 2 $\theta$ 1/2   |
| EA3528SYC | InGaAlP                     | 588             | WATER CLEAR | 40                  | 120  | 120°             |

### Note:

1.  $\theta 1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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DATE :AUG/30/2001

## Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

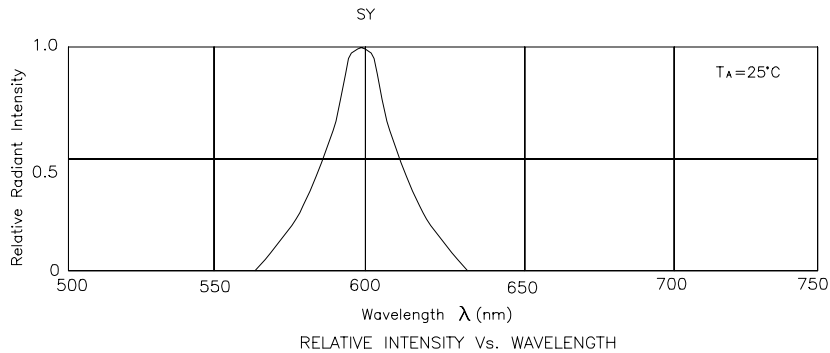
| Symbol                  | Parameter               | Device              | Typ. | Max. | Units         | Test Conditions                |
|-------------------------|-------------------------|---------------------|------|------|---------------|--------------------------------|
| $\lambda_{\text{peak}}$ | Peak Wavelength         | Super Bright Yellow | 590  |      | nm            | $I_F=20\text{mA}$              |
| $\lambda_D$             | Dominate Wavelength     | Super Bright Yellow | 588  |      | nm            | $I_F=20\text{mA}$              |
| $\Delta\lambda_{1/2}$   | Spectral Line Halfwidth | Super Bright Yellow | 28   |      | nm            | $I_F=20\text{mA}$              |
| C                       | Capacitance             | Super Bright Yellow | 25   |      | pF            | $V_F=0\text{V}; f=1\text{MHz}$ |
| $V_F$                   | Forward Voltage         | Super Bright Yellow | 2.0  | 2.5  | V             | $I_F=20\text{mA}$              |
| $I_R$                   | Reverse Current         | Super Bright Yellow |      | 10   | $\mu\text{A}$ | $V_R = 5\text{V}$              |

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

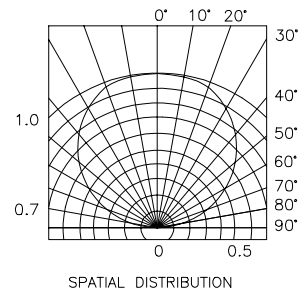
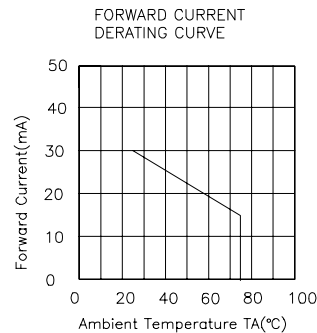
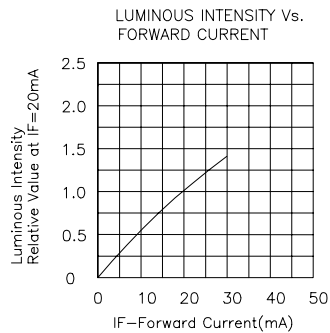
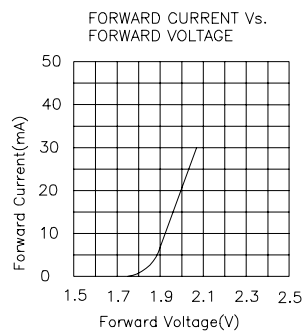
| Parameter                     | Super Bright Yellow | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 125                 | mW    |
| DC Forward Current            | 30                  | mA    |
| Peak Forward Current [1]      | 175                 | mA    |
| Reverse Voltage               | 5                   | V     |
| Operating/Storage Temperature | -40°C To +85°C      |       |

Note:

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



## Super Bright Yellow EA3528SYC



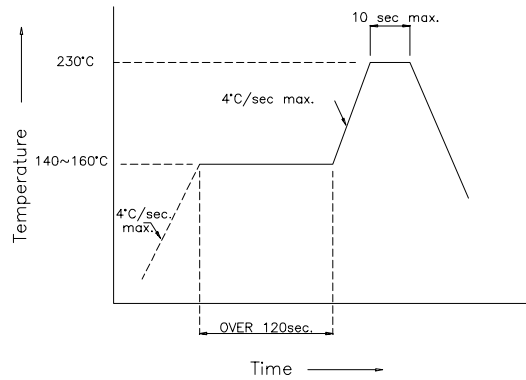
DATA NO :EA0141

REV NO :V1

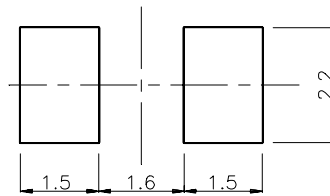
DATE :AUG/30/2001

**EA3528SYC SMT Reflow Soldering Instructions**

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



**EA3528SYC Recommended Soldering Pattern  
(Units : mm)**



**EA3528SYC Tape Specifications  
(Units : mm)**

PACKAGE : 1500PCS / REEL

