

AM2520SYC02 SUPER BRIGHT YELLOW

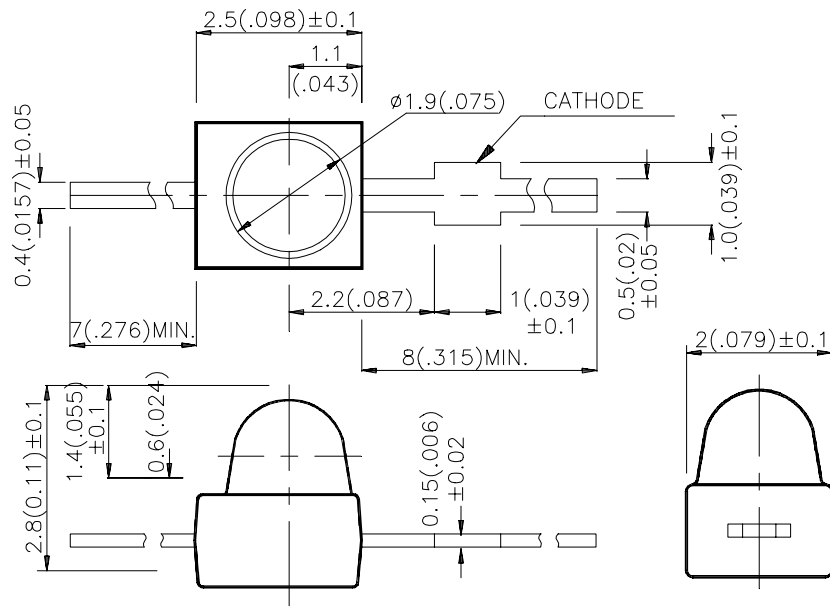
### Features

- SUBMINIATURE PACKAGE.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.

### Description

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

### Package Dimensions



### 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.

## Selection Guide

| Part No.    | Dice                          | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|-------------|-------------------------------|-------------|---------------------|------|------------------|
|             |                               |             | Min.                | Typ. | θ1/2             |
| AM2520SYC02 | SUPER BRIGHT YELLOW (InGaAlP) | WATER CLEAR | 110                 | 500  | 20°              |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

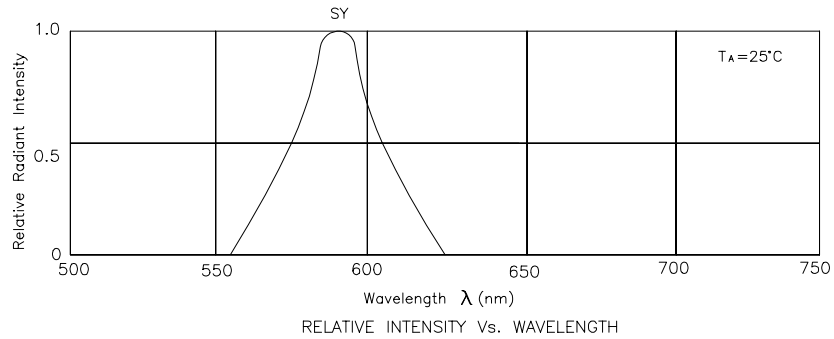
| Symbol            | Parameter               | Device              | Typ. | Max. | Units | Test Conditions |
|-------------------|-------------------------|---------------------|------|------|-------|-----------------|
| λ <sub>peak</sub> | Peak Wavelength         | Super Bright Yellow | 590  |      | nm    | IF=20mA         |
| λ <sub>D</sub>    | Dominate Wavelength     | Super Bright Yellow | 588  |      | nm    | IF=20mA         |
| Δλ <sub>1/2</sub> | Spectral Line Halfwidth | Super Bright Yellow | 28   |      | nm    | IF=20mA         |
| C                 | Capacitance             | Super Bright Yellow | 25   |      | pF    | VF=0V;f=1MHz    |
| V <sub>F</sub>    | Forward Voltage         | Super Bright Yellow | 2.0  | 2.5  | V     | IF=20mA         |
| I <sub>r</sub>    | Reverse Current         | Super Bright Yellow |      | 10   | μA    | VR = 5V         |

## Absolute Maximum Ratings at T<sub>A</sub>=25°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      |       |
| Lead Solder Temperature [2]   | 260°C For 5 Seconds |       |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



## Super Bright Yellow AM2520SYC02

