

PRELIMINARY SPEC

Part Number: BLB101SYC-12V-P

Super Bright Yellow

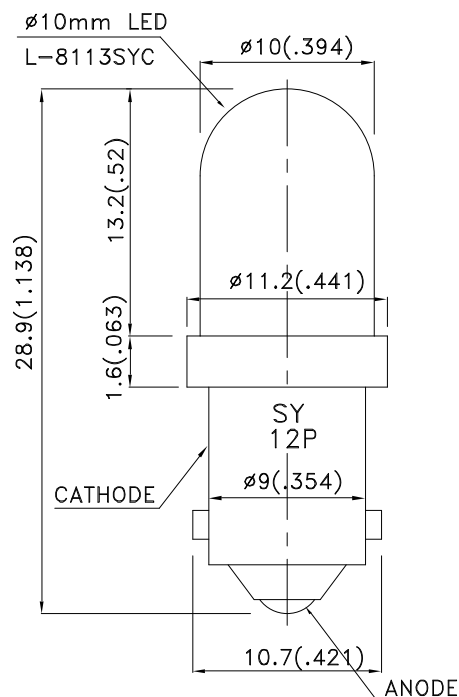
### Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- DIFFERENT COLOR AVAILABLE.
- SOLID STATE, HIGH VIBRATION RESISTANT.
- 12V INTERNAL RESISTOR
- RoHS COMPLIANT.

### Description

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

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.



## Selection Guide

| Part No.        | Dice                          | Lens Type   | Iv (mcd)<br>V= 12V |      | Viewing<br>Angle |
|-----------------|-------------------------------|-------------|--------------------|------|------------------|
|                 |                               |             | Min.               | Typ. | 2 $\theta$ 1/2   |
| BLB101SYC-12V-P | Super Bright Yellow (InGaAlP) | WATER CLEAR | 900                | 1800 | 20°              |

Note:

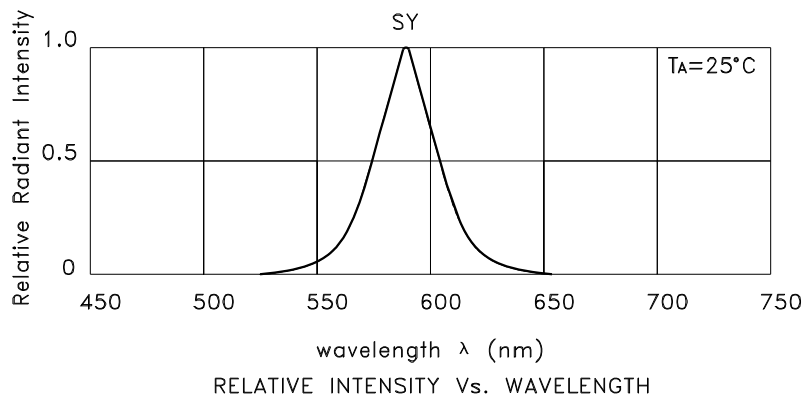
1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

| Symbol                | Parameter                | Device              | Typ. | Max. | Units | Test Conditions     |
|-----------------------|--------------------------|---------------------|------|------|-------|---------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Super Bright Yellow | 590  |      | nm    | V <sub>F</sub> =12V |
| $\lambda_D$           | Dominant Wavelength      | Super Bright Yellow | 588  |      | nm    | V <sub>F</sub> =12V |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Super Bright Yellow | 28   |      | nm    | V <sub>F</sub> =12V |
| I <sub>F</sub>        | Forward Current          | Super Bright Yellow | 16   | 20   | mA    | V <sub>F</sub> =12V |
| I <sub>R</sub>        | Reverse Current          | Super Bright Yellow |      | 10   | uA    | V <sub>R</sub> = 5V |

## Absolute Maximum Ratings at TA=25°C

| Parameter             | Super Bright Yellow | Units |
|-----------------------|---------------------|-------|
| Power dissipation     | 280                 | mW    |
| Forward Voltage       | 14                  | V     |
| Reverse Voltage       | 5                   | V     |
| Operating Temperature | -40°C To +70°C      |       |
| Storage Temperature   | -40°C To +85°C      |       |



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