

### PRELIMINARY SPEC

Part Number: BLFA054SYCK-28V-P

Super Bright Yellow

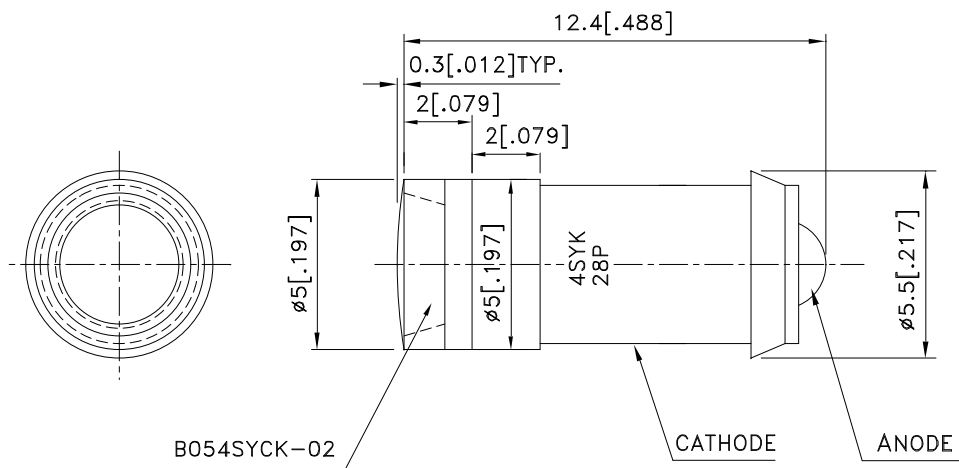
### Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW MAINTENANCE.
- DIFFERENT COLOR AVAILABLE.
- SOLID STATE, HIGH VIBRATION RESISTANT.
- 28V 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= 28V |      | Viewing Angle |
|-------------------|-------------------------------|-------------|--------------------|------|---------------|
|                   |                               |             | Min.               | Typ. | 2θ1/2         |
| BLFA054SYCK-28V-P | Super Bright Yellow (InGaAlP) | WATER CLEAR | 110                | 300  | 110°          |

Note:

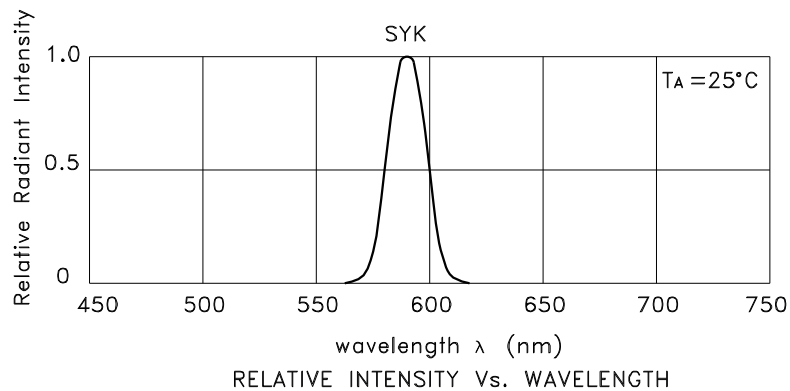
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

| Symbol         | Parameter                | Device              | Typ. | Max. | Units | Test Conditions     |
|----------------|--------------------------|---------------------|------|------|-------|---------------------|
| λpeak          | Peak Wavelength          | Super Bright Yellow | 590  |      | nm    | V <sub>F</sub> =28V |
| λD             | Dominant Wavelength      | Super Bright Yellow | 590  |      | nm    | V <sub>F</sub> =28V |
| Δλ1/2          | Spectral Line Half-width | Super Bright Yellow | 20   |      | nm    | V <sub>F</sub> =28V |
| I <sub>F</sub> | Forward Current          | Super Bright Yellow | 6.5  | 8    | mA    | V <sub>F</sub> =28V |
| I <sub>R</sub> | Reverse Current          | Super Bright Yellow |      | 10   | μA    | V <sub>R</sub> = 5V |

## Absolute Maximum Ratings at TA=25°C

| Parameter             | Super Bright Yellow | Units |
|-----------------------|---------------------|-------|
| Power dissipation     | 240                 | mW    |
| Forward Voltage       | 30                  | V     |
| Reverse Voltage       | 5                   | V     |
| Operating Temperature | -40°C To +70°C      |       |
| Storage Temperature   | -40°C To +85°C      |       |



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