

BLFA054SYCK-28V SUPER BRIGHT YELLOW

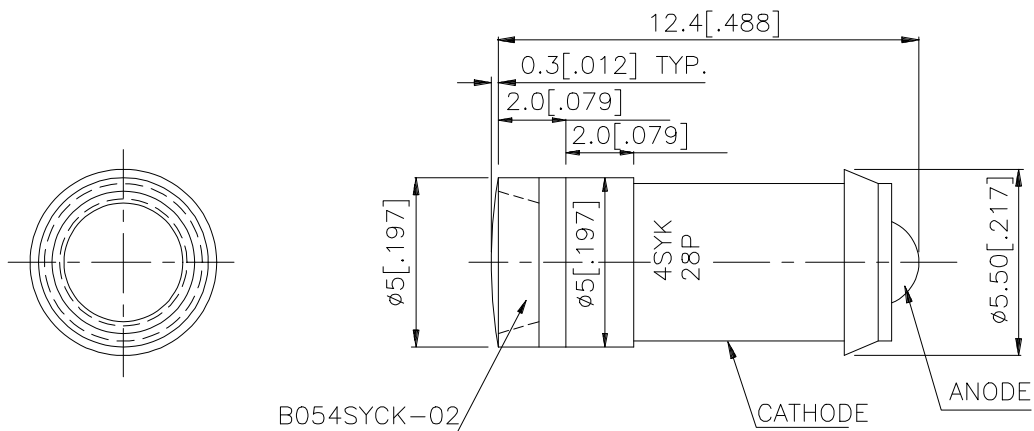
### Features

- 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.

### 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. Specifications are subject to change without notice.

## Selection Guide

| Part No.        | Dice                            | Lens Type   | Iv (mcd)<br>V=28V |      | Viewing<br>Angle |
|-----------------|---------------------------------|-------------|-------------------|------|------------------|
|                 |                                 |             | Min.              | Typ. | 2θ1/2            |
| BLFA054SYCK-28V | SUPER BRIGHT YELLOW ( InGaAlP ) | WATER CLEAR | 36                | 130  | 110°             |

Note:

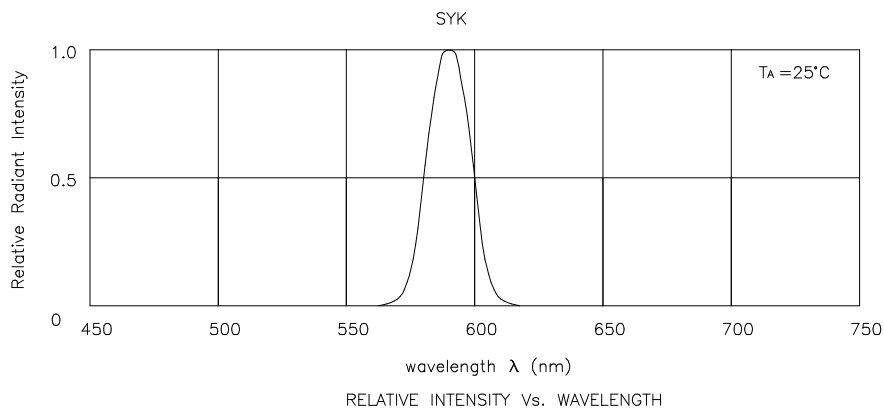
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at 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    | V <sub>F</sub> =28V         |
| λ <sub>D</sub>    | Dominate Wavelength      | Super Bright Yellow | 590  | -    | nm    | V <sub>F</sub> =28V         |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Super Bright Yellow | 20   | -    | nm    | V <sub>F</sub> =28V         |
| C                 | Capacitance              | Super Bright Yellow | 20   | -    | pF    | V <sub>F</sub> =0V; f=1 MHz |
| I <sub>F</sub>    | Forward Current          | Super Bright Yellow | 10   | -    | mA    | V <sub>F</sub> =28V         |
| I <sub>R</sub>    | Reverse Current          | Super Bright Yellow | -    | 10   | uA    | V <sub>R</sub> =5V          |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter             | Super Bright Yellow | Units |
|-----------------------|---------------------|-------|
| Power dissipation     | 300                 | mW    |
| Forward Voltage       | 30                  | V     |
| Reverse Voltage       | 5                   | V     |
| Operating Temperature | -40 °C To +70 °C    |       |
| Storage Temperature   | -40 °C To + 85 °C   |       |



Super Bright Yellow

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