

Part Number: BLB101SYC-28V-P

Super Bright Yellow

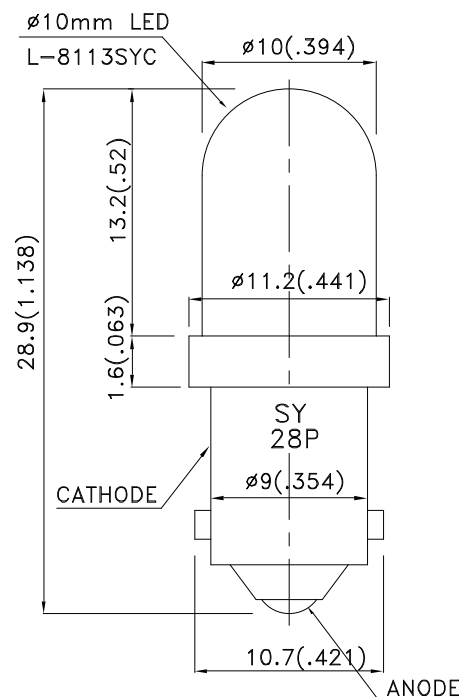
Features

- 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.
- 28V internal resistor.
- RoHS compliant.

Description

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

Package Dimensions



Notes:

- NOTES:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V= 28V | | Φv (mlm) V= 28V | Viewing Angle |
|-----------------|-------------------------------|-------------|--------------------|------|--------------------|------------------|
| | | | Min. | Typ. | Typ. | 2θ1/2 |
| BLB101SYC-28V-P | Super Bright Yellow (AlGaInP) | Water Clear | 550 | 1200 | 500 | 20° |

Note:

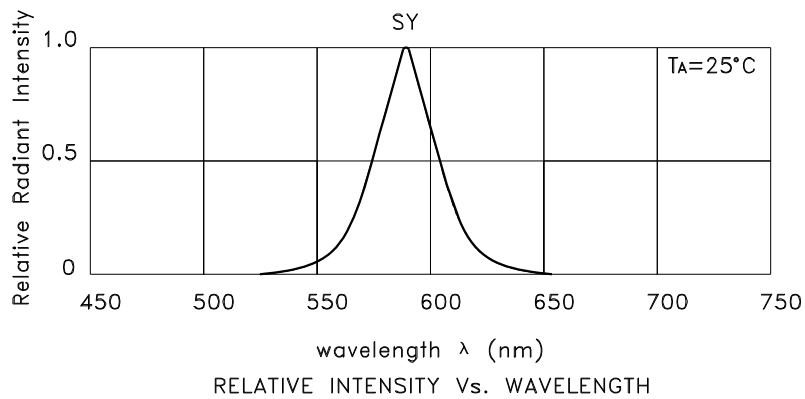
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Electrical / Optical Characteristics at TA=25°C

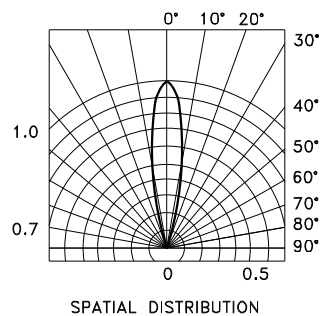
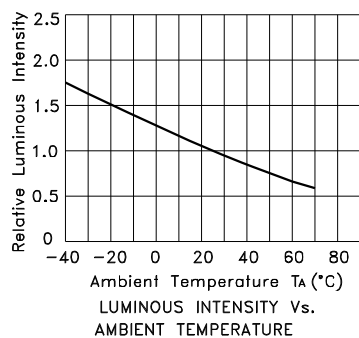
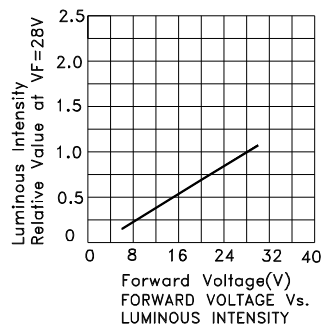
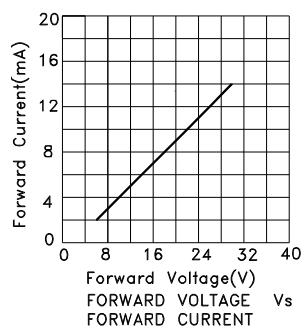
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Super Bright Yellow | 590 | | nm | VF=28V |
| λD | Dominant Wavelength | Super Bright Yellow | 590 | | nm | VF=28V |
| Δλ1/2 | Spectral Line Half-width | Super Bright Yellow | 28 | | nm | VF=28V |
| IF | Forward Current | Super Bright Yellow | 13 | 16 | mA | VF=28V |
| IR | Reverse Current | Super Bright Yellow | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Yellow | Units |
|-----------------------|---------------------|-------|
| Power dissipation | 480 | mW |
| Forward Voltage | 30 | V |
| Reverse Voltage | 5 | V |
| Operating Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |

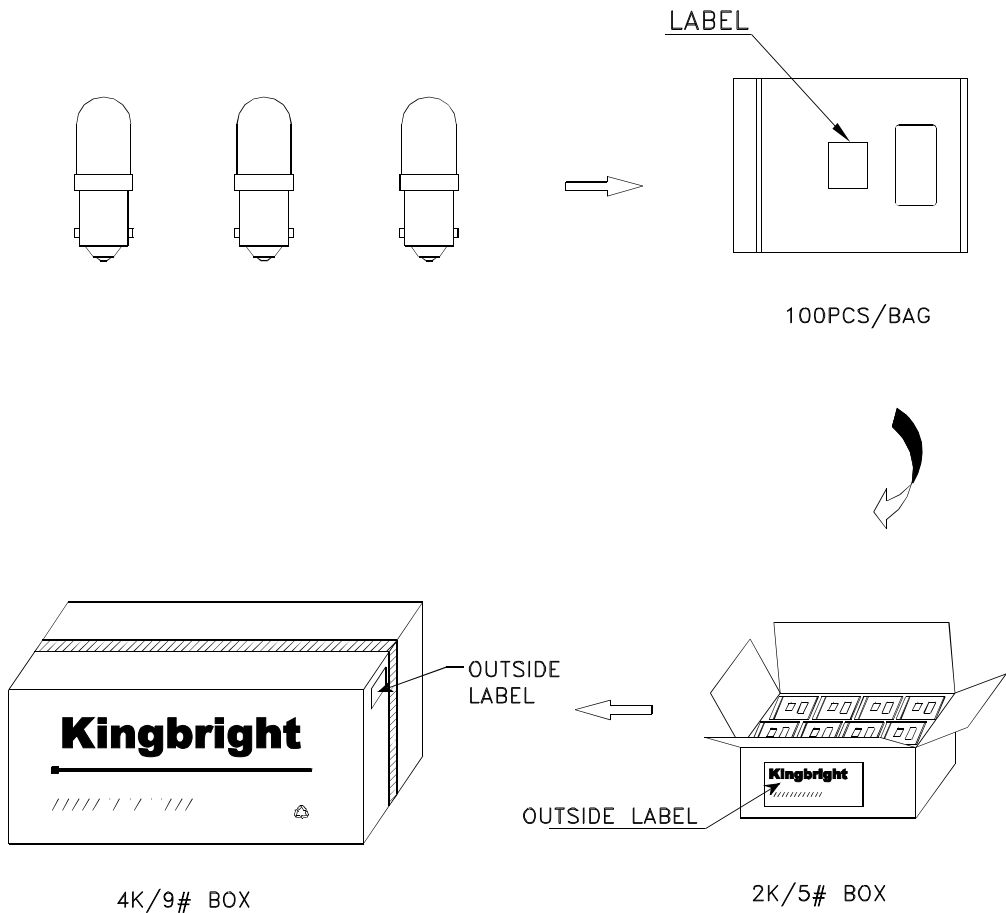



Super Bright Yellow BLB101SYC-28V-P



PACKING & LABEL SPECIFICATIONS

BLB101SYC-28V-P



| | |
|--|---|
| Kingbright | |
| P/NO: BLB101xxx | |
| QTY: 100 pcs | Q.C. <div>Q C xx-xx-xxxx PASSED</div> |
| S/N: XXXX | |
| CODE: XXX | |
| LOT NO: | |
|  xxxxxxxxxxxxxxxxxxxxxx | |
| RoHS Compliant | |