

BLB102SURC-E-28V-P

HYPER RED

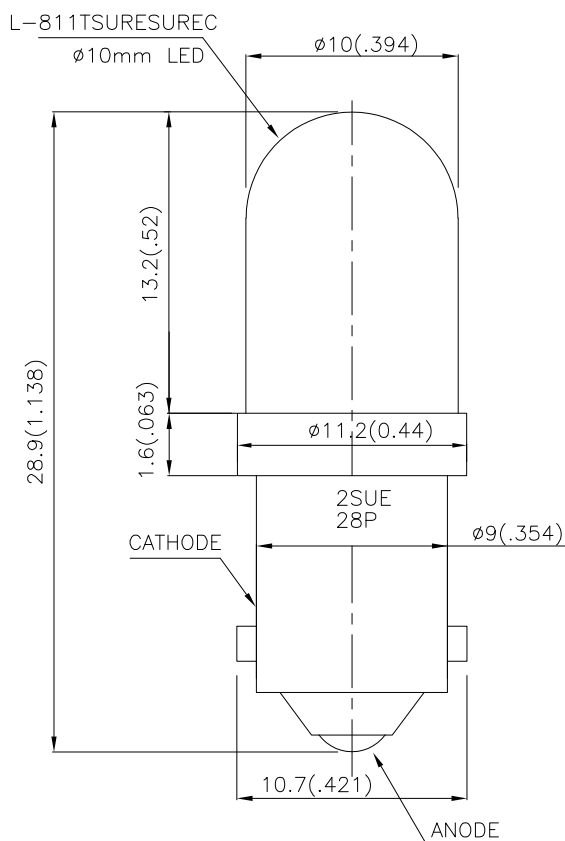
Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- SOLID STATE, HIGH VIBRATION RESISTANT.
- 28V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Description

The Hyper Red 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 ± 0.25 (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V=28V | | Viewing Angle |
|--------------------|---------------------|-------------|-------------------|------|----------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| BLB102SURC-E-28V-P | HYPER RED (InGaAlP) | WATER CLEAR | 480 | 1300 | 40° |

Note:

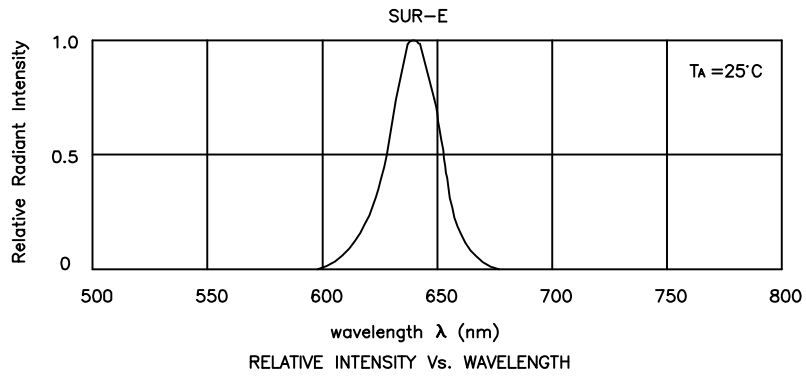
1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|-----------|------|------|-------|---------------------|
| λ_{peak} | Peak Wavelength | Hyper Red | 640 | | nm | V _F =28V |
| λ_D | Dominant Wavelength | Hyper Red | 630 | | nm | V _F =28V |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Hyper Red | 25 | | nm | V _F =28V |
| I _F | Forward Current | Hyper Red | 10.5 | | mA | V _F =28V |
| I _R | Reverse Current | Hyper Red | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Hyper Red | Units |
|-----------------------|----------------|-------|
| Power dissipation | 400 | 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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