

BLB102SURC-E-28V-P

HYPER RED

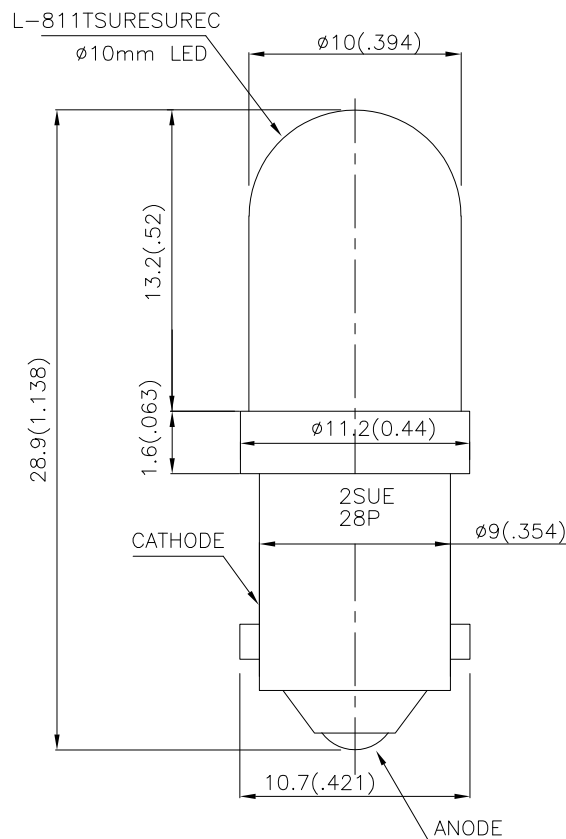
### Features

- 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  $\pm 0.25$  (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

## Selection Guide

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

Note:

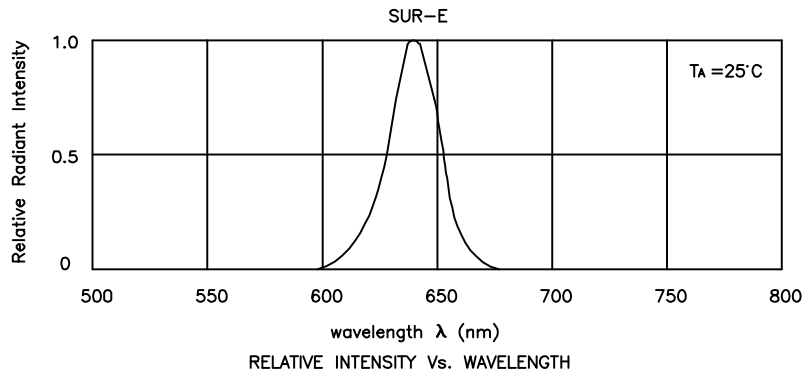
1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

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

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