

BLB101SURC/E28V HYPER RED

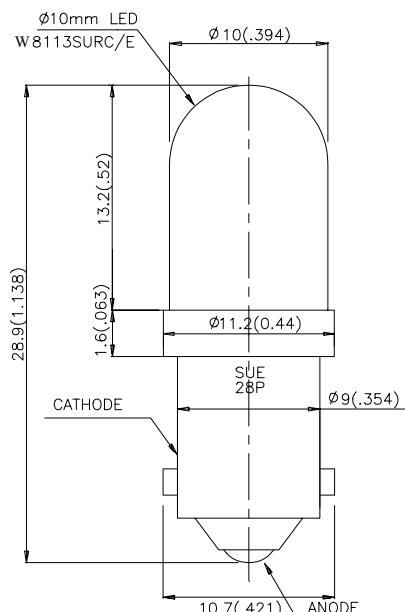
## Features

- 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.

## 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	I <sub>V</sub> (mcd) V=28V		Viewing Angle
			Min.	Typ.	
BLB101SURC-E28V	HYPER RED (InGaAlP)	WATER CLEAR	480	930	20°/2

Note:

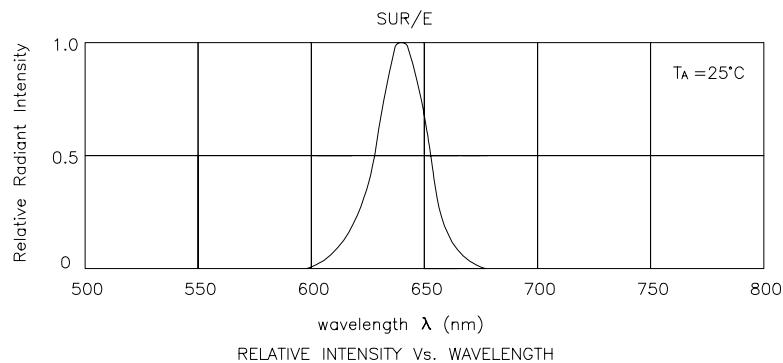
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Hyper Red	640		nm	V <sub>F</sub> =28V
λ <sub>D</sub>	Dominate Wavelength	Hyper Red	630		nm	V <sub>F</sub> =28V
Δλ1/2	Spectral Line Half-width	Hyper Red	25		nm	V <sub>F</sub> =28V
I <sub>F</sub>	Forward Current	Hyper Red	10.6		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 for 28V	380	mW
DC Forward Voltage for 28V	32	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	



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