

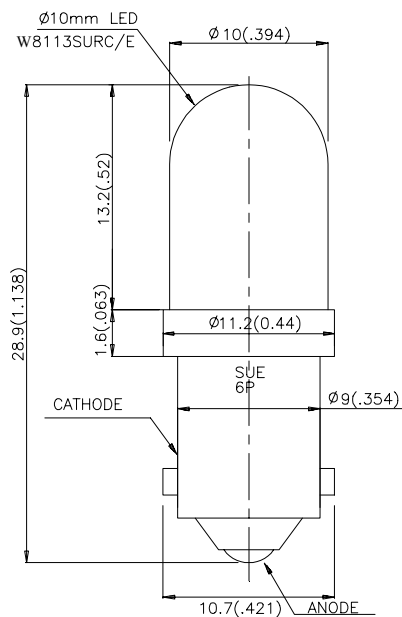
## Features

- 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.
- 6V 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   | Iv (mcd)<br>V=6V |      | Viewing<br>Angle |
|-----------------|---------------------|-------------|------------------|------|------------------|
|                 |                     |             | Min.             | Typ. | θ1/2             |
| BLB101SURC/E-6V | HYPER RED (InGaAlP) | WATER CLEAR | 900              | 2200 | 20°              |

Note:

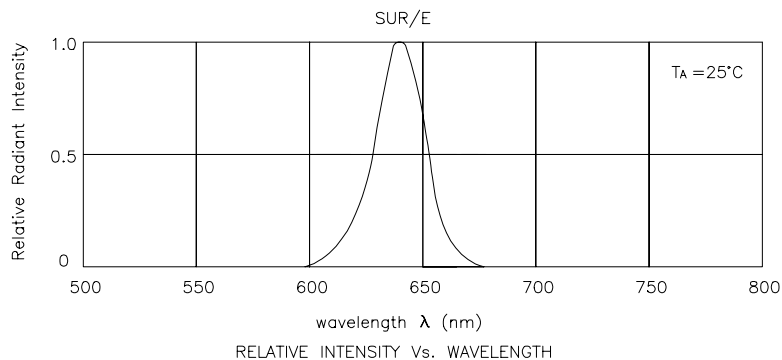
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## 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> =6V  |
| D                 | Dominate Wavelength      | Hyper Red | 630  |      | nm    | V <sub>F</sub> =6V  |
| Δλ1/2             | Spectral Line Half-width | Hyper Red | 25   |      | nm    | V <sub>F</sub> =6V  |
| I <sub>F</sub>    | Forward Current          | Hyper Red | 26   |      | mA    | V <sub>F</sub> =6V  |
| 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 6V  | 160            | mW    |
| DC Forward Voltage for 6V | 7              | V     |
| Reverse Voltage           | 5              | V     |
| Operating Temperature     | -40°C To +70°C |       |
| Storage Temperature       | -40°C To +85°C |       |



## Hyper Red

### BLB101SURC/E-6V

