BLS102SURC-A110 HYPER RED

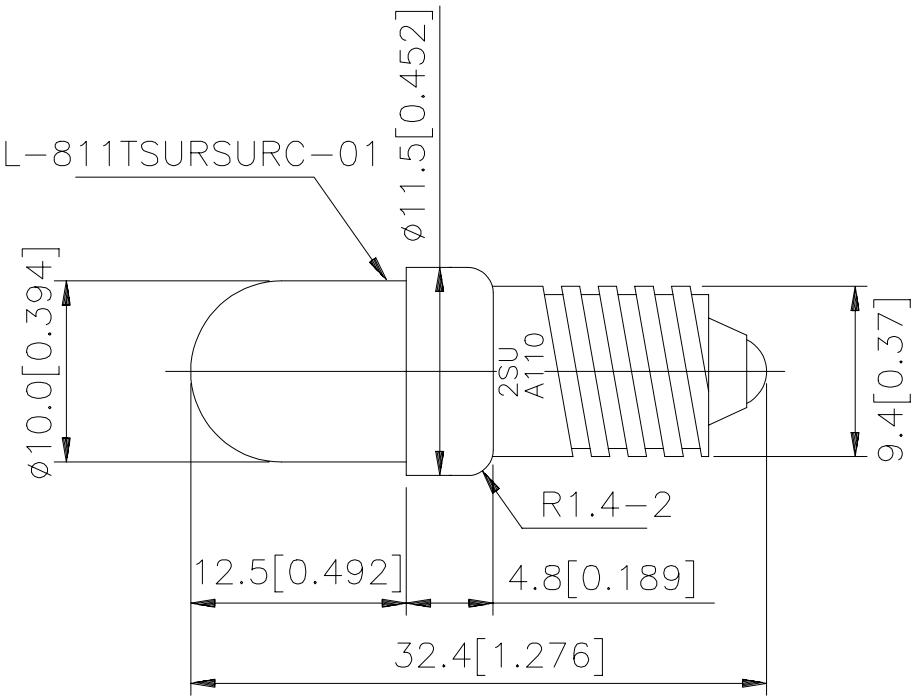
## Features

- BUILT-IN HIGH VOLTAGE CAPACITANCE FOR DIRECT APPLICATION OF DIFFERENT ACROSS VOLTAGE.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- DIFFERENT COLOR AVAILABLE.
- HIGH TEMPERATE,HIGH VOLTAGE CAPACITANCE.
- AC110V INTERNAL CAPACITANCE.

## 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) AC=110V | | Viewing Angle |
|---|---|---|---|---|---|
| | | | Min. | Typ. | 2θ1/2 |
| BLS102SURC-A110 | HYPER RED(InGaAlP) | WATER CLEAR | 380 | 1400 | 25° |

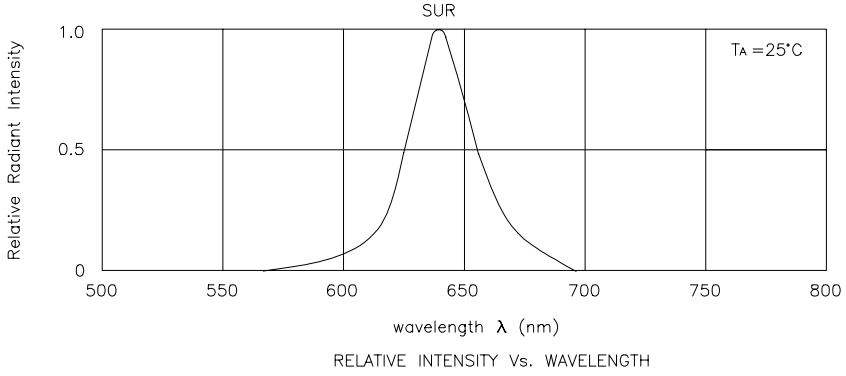
Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at $T_A$=25°C

| Symbol | Parameter | Device | Typ. | Units | Test Conditions |
|---|---|---|---|---|---|
| λpeak | Peak Wavelength | Hyper Red | 640 | nm | $V_{AC}$=110V |
| λ D | Dominate Wavelength | Hyper Red | 628 | nm | $V_{AC}$=110V |
| Δλ1/2 | Spectral Line Half-width | Hyper Red | 27 | nm | $V_{AC}$=110V |
| $I_{AC}$ | AC Current | Hyper Red | 18 | mA | $V_{AC}$=110V |

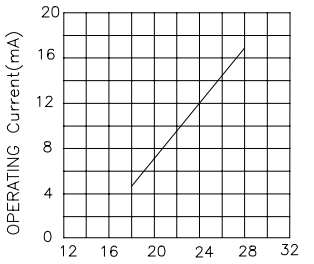
## Absolute Maximum Ratings at $T_A$=25°C

| Parameter | Hyper Red | Units |
|---|---|---|
| Power dissipation | 2300 | mW |
| AC Voltage | 130 | V |
| Operating Temperature | -40 °C To + 70 °C | |
| Storage Temperature | -40 °C To + 85 °C | |

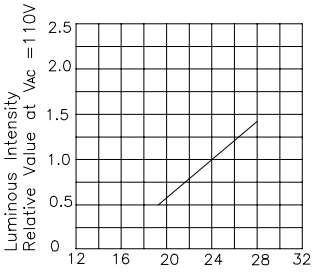



RELATIVE INTENSITY Vs. WAVELENGTH

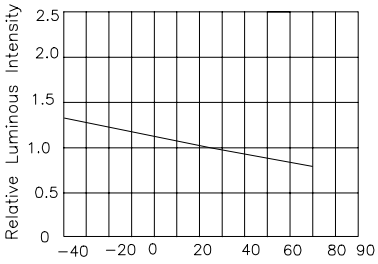
**Hyper Red BLS102SURC-A110**



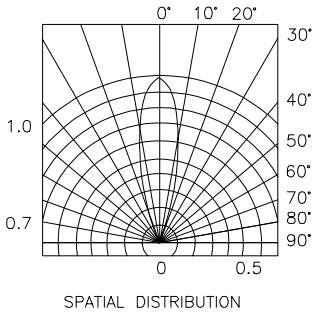

OPERATING VOLTAGE Vs.
OPERATING CURRENT




OPERATING VOLTAGE Vs.
LUMINOUS INTENSITY




LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE




SPATIAL DISTRIBUTION