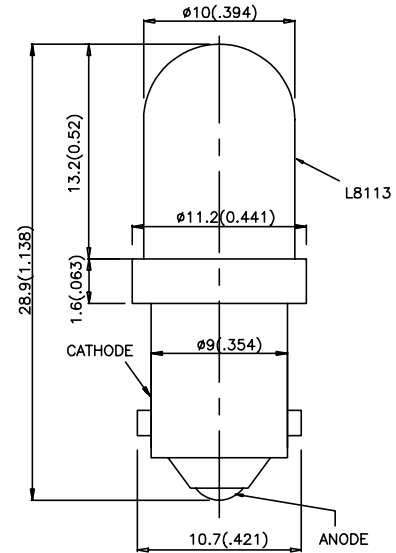


Features

- 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.

BLB101SURC-E-6V-P

Package Dimensions



Description

The Hyper Red (SUR-E) source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V=6V		Viewing Angle
			Min.	Typ.	2 θ 1/2
BLB101SURC-E-6V-P	HYPHER RED (InGaAlP)	WATER CLEAR	1000	2500	20°

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 $T_A=25^{\circ}\text{C}$

Symbol	Parameter	Device	Typ.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Red (SUR-E)	640	nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Hyper Red (SUR-E)	20	nm	$I_F=20\text{mA}$
I_F	Forward Current	Hyper Red (SUR-E)	25	mA	$V_F=6\text{V}$
I_R	Reverse Current	All	10	μA	$V_R= 5\text{V}$

Absolute Maximum Ratings at $T_A=25^{\circ}\text{C}$

Parameter	Hyper Red (SUR-E)	Units
Power dissipation (6V)	160	mW
Power dissipation (12V)	270	mW
Power dissipation (24V)	380	mW
Derating Linear from 50°C	0.4	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40 $^{\circ}\text{C}$ To +85 $^{\circ}\text{C}$	