

PRELIMINARY SPEC

Part Number: L-816BSRC-B

SUPER BRIGHT RED

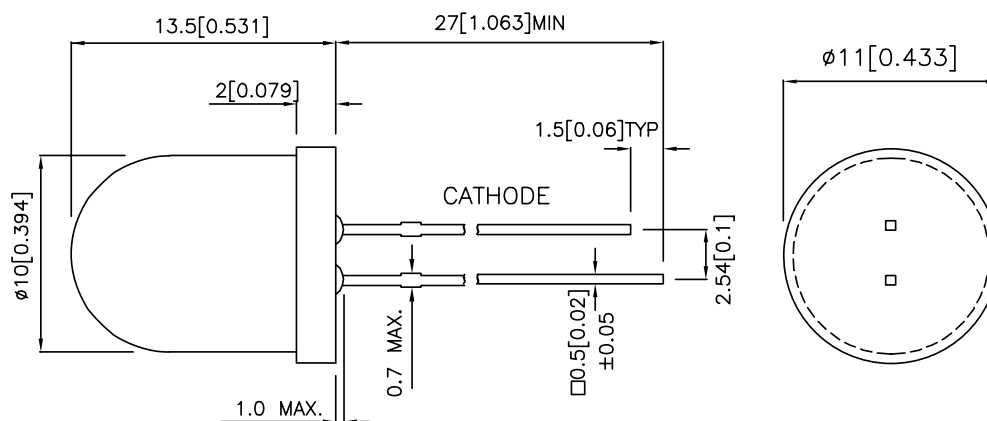
### Features

- 10mm DIAMETER BIG LAMP WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V to 14V.
- BLINKING FREQUENCY FROM 3.0Hz to 1.5Hz.
- RoHS COMPLIANT.

### Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red 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. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V=9V		Viewing Angle
			Min.	Typ.	2θ1/2
L-816BSRC-B	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	110	400	15°

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 TA=25°C

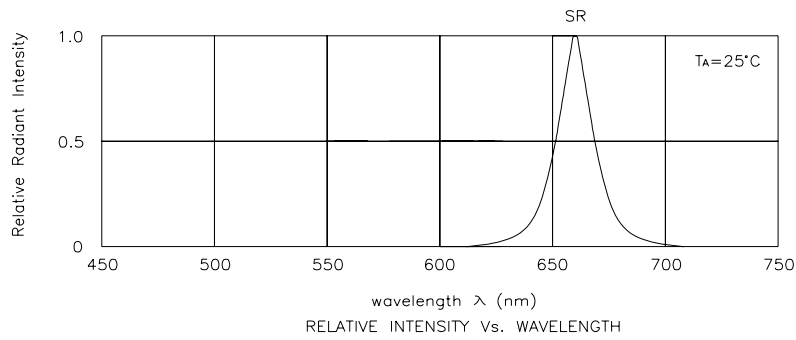
Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Super Bright Red		660		nm	
λ <sub>D</sub>	Dominant Wavelength	Super Bright Red		640		nm	
Δλ <sub>1/2</sub>	Spectral Line Half-width	Super Bright Red		20		nm	
I <sub>F</sub>	Forward Current	Super Bright Red	8	22		mA	Min:V <sub>F</sub> =3.5V Typ:V <sub>F</sub> =5V
I <sub>SON</sub>	Supply Current	Super Bright Red		8		mA	V <sub>F</sub> = 3.5V
I <sub>SON</sub>	Supply Current	Super Bright Red		44		mA	V <sub>F</sub> = 14V
f	Blink Frequency	Super Bright Red	1.5		3	Hz	V <sub>F</sub> = 3.5V ~ 14V

## Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units
Power dissipation	310	mW
Forward Voltage	14	V
Reverse Voltage	0.5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

- 2mm below package base.
- 5mm below package base.



**Super Bright Red**

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