

PRELIMINARY SPEC

Part Number: L-816BSRC-B

SUPER BRIGHT RED

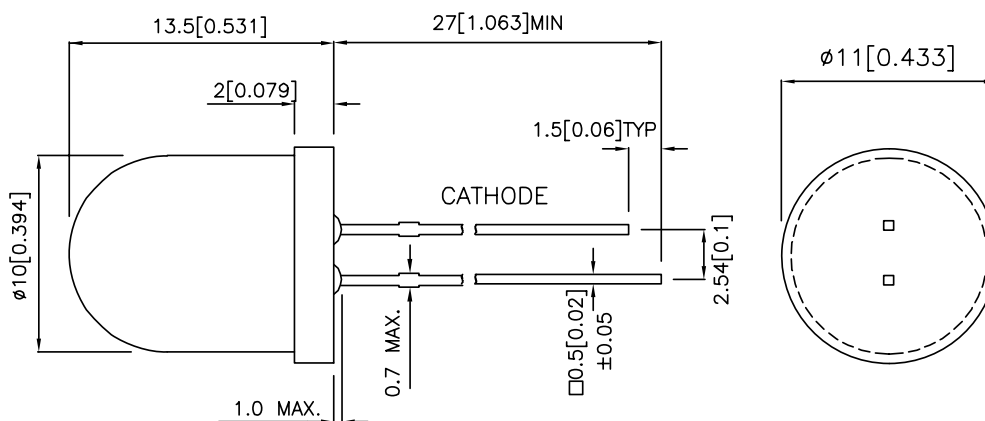
Features

- 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 ± 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

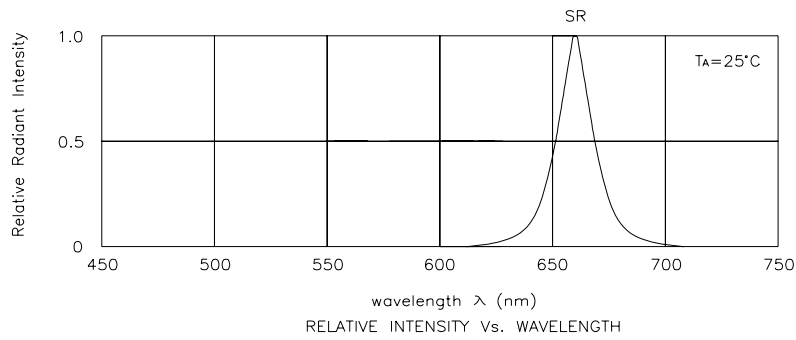
Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red		660		nm	
λ _D	Dominant Wavelength	Super Bright Red		640		nm	
Δλ _{1/2}	Spectral Line Half-width	Super Bright Red		20		nm	
I _F	Forward Current	Super Bright Red	8	22		mA	Min:V _F =3.5V Typ:V _F =5V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

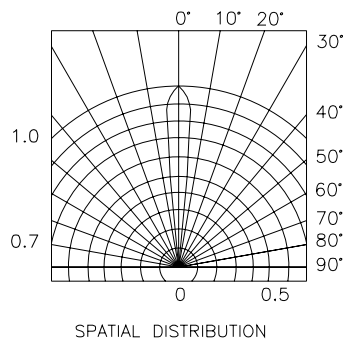
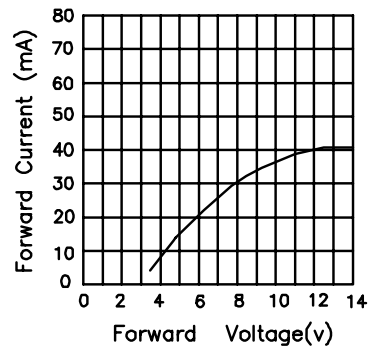
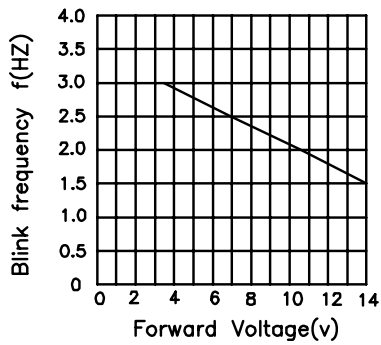
Notes:

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



Super Bright Red

L-816BSRC-B



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