

Part Number: L-816BSRD-B

SUPER BRIGHT RED

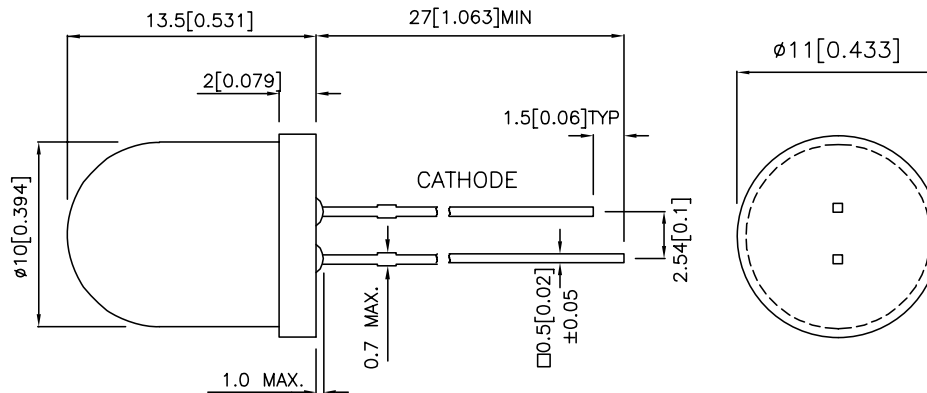
Features

- 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 lead 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-816BSRD-B	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	110	300	60°

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

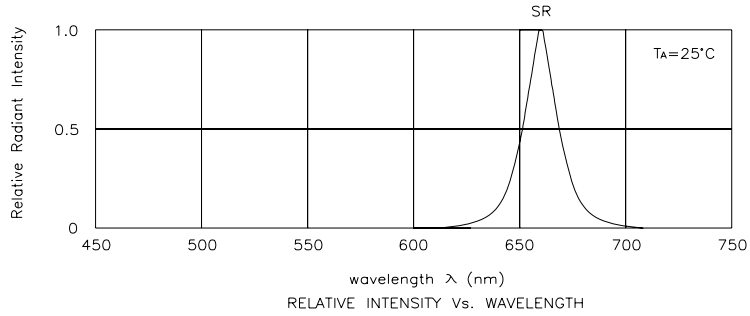
Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red		660		nm	
λ_D	Dominant Wavelength	High Efficiency Red		640		nm	
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red		20		nm	
IF	Forward Current	High Efficiency Red	8	22		mA	Min:VF=3.5V Typ:VF=5V
ISON	Supply Current	High Efficiency Red		8		mA	VF = 3.5V
ISON	Supply Current	High Efficiency Red		44		mA	VF = 14V
f	Blink Frequency	High Efficiency Red	1.5		3	Hz	VF = 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.



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