Kingbright

10mm ROUND, BLINKING LED LAMP

PRELIMINARY SPEC

Part Number: L-816BSRC-B SUPER BRIGHT RED

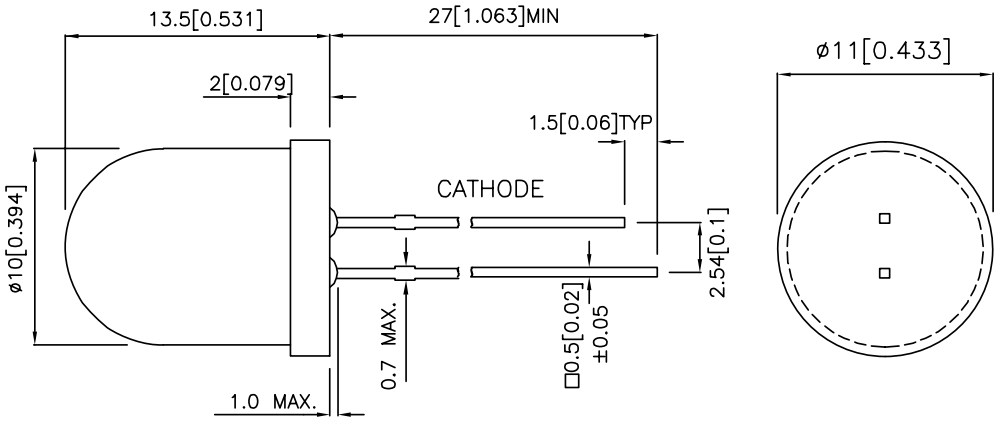
Features

●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.

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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.

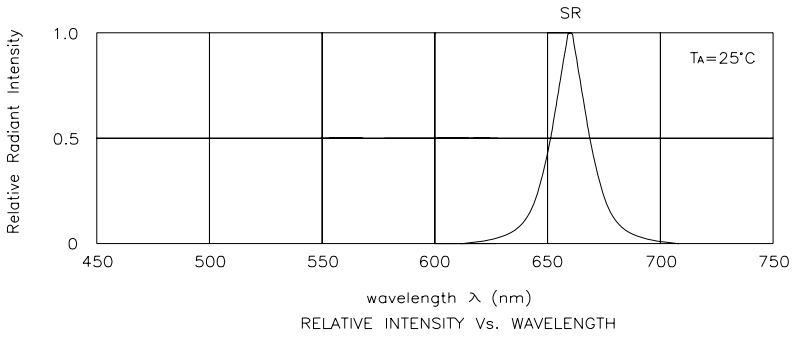
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red		660		nm	
λD	Dominant Wavelength	Super Bright Red		640		nm	
Δλ1/2	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 T_A=25°C

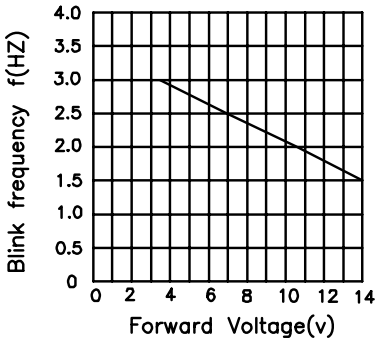
Parameter	Super Bright Red	Units
Power dissipation	310	mW
Forward Voltage	14	V
Reverse Voltage	0.5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

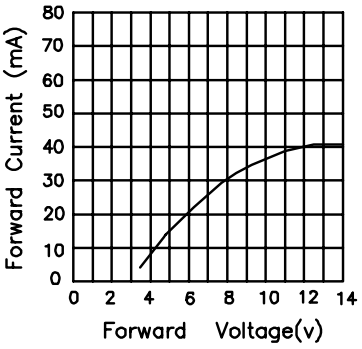
Notes:
1. 2mm below package base.
2. 5mm below package base.

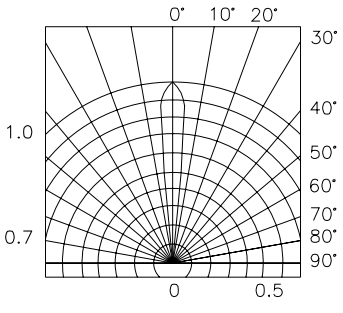


RELATIVE INTENSITY Vs. WAVELENGTH

Super Bright Red **L-816BSRC-B**







SPATIAL DISTRIBUTION