

Part Number: L-816BID

HIGH EFFICIENCY RED

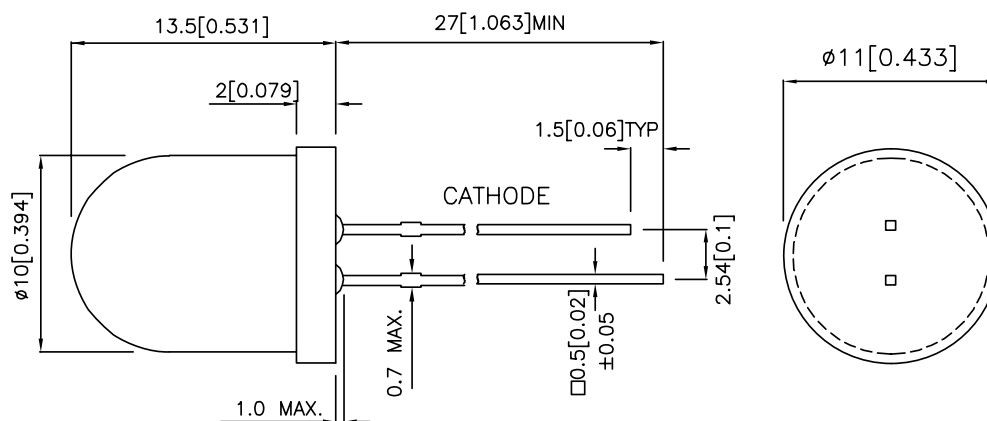
Features

- 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange 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-816BID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	18	60	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		627		nm	
λ _D	Dominant Wavelength	High Efficiency Red		625		nm	
Δλ _{1/2}	Spectral Line Half-width	High Efficiency Red		45		nm	
I _F	Forward Current	High Efficiency Red	8	22		mA	Min:V _F =3.5V Typ:V _F =5V
I _{SON}	Supply Current	High Efficiency Red		8		mA	V _F = 3.5V
I _{SON}	Supply Current	High Efficiency Red		44		mA	V _F = 14V
f	Blink Frequency	High Efficiency Red	1.5		3	Hz	V _F = 3.5V~14V

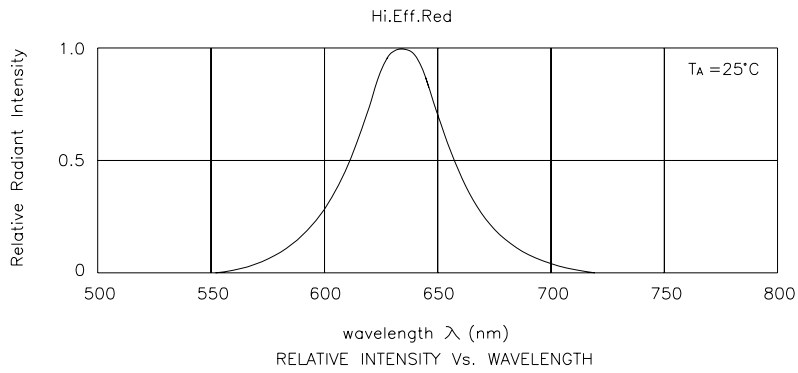
Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency 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:

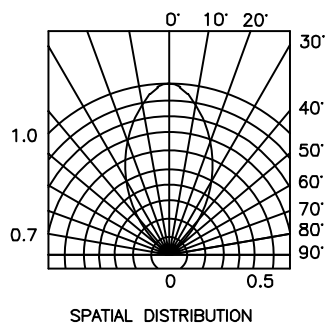
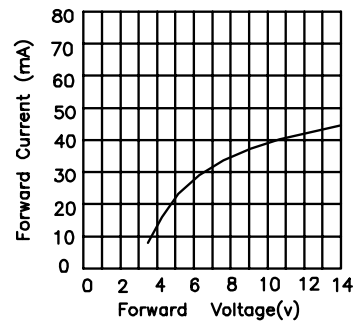
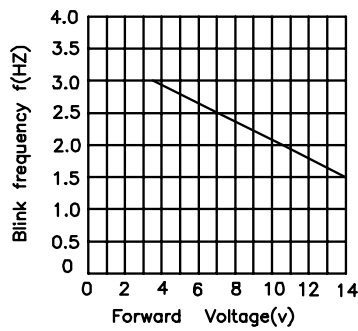
1. 2mm below package base.

2. 5mm below package base.



High Efficiency Red

L-816BID



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