

10mm ROUND, BLINKING LED LAMP

Part Number: L-816BID

HIGH EFFICIENCY RED

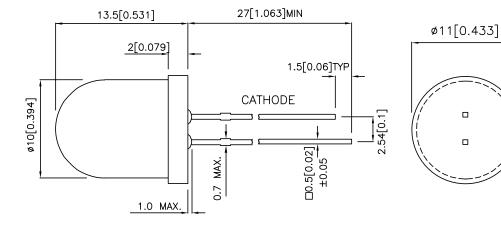
Features

- •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.





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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) V=9V		Viewing Angle
			Min.	Тур.	201/2
L-816BID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	18	60	60°

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red		627		nm	
λD	Dominant Wavelength	High Efficiency Red		625		nm	
Δλ1/2	Spectral Line Half-width	High Efficiency Red		45		nm	
lF	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	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]	ature [1] 260°C For 3 Seconds		
Lead Solder Temperature [2]	mperature [2] 260°C For 5 Seconds		

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

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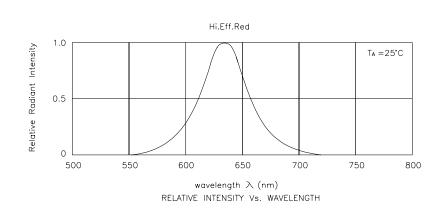
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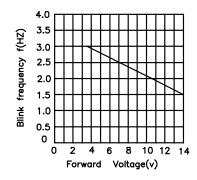
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

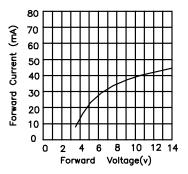
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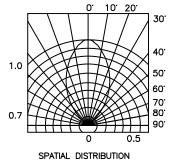


High Efficiency Red

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