

Features

- 8mm DIAMETER BIG LAMP WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V to 13V.
- BLINKING FREQUENCY FROM 2.5Hz to 1.5Hz.

L796BID HIGH EFFICIENCY RED
 L796BGD GREEN
 L796BYD YELLOW
 L796BSRC/B SUPER BRIGHT RED
 L796BSRD/B SUPER BRIGHT RED

Description

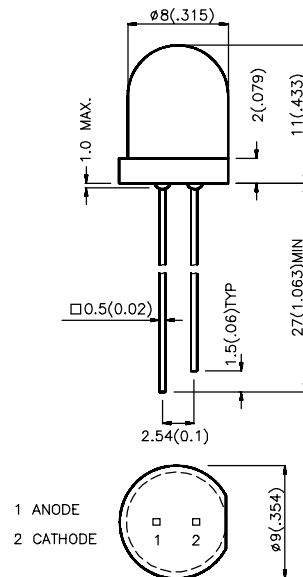
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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 package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ VF=9V		Viewing Angle
			Min.	Typ.	2 θ 1/2
L796BID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	20	60	60°
L796BGD	GREEN (GaP)	GREEN DIFFUSED	20	50	60°
L796BYD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	20	40	60°
L796BSRD/B	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	100	300	60°
L796BSRC/B	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	500	800	40°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. * Luminous intensity with asterisk is measured at 20mA.

Electrical / Optical Characteristics at T_A=25°C

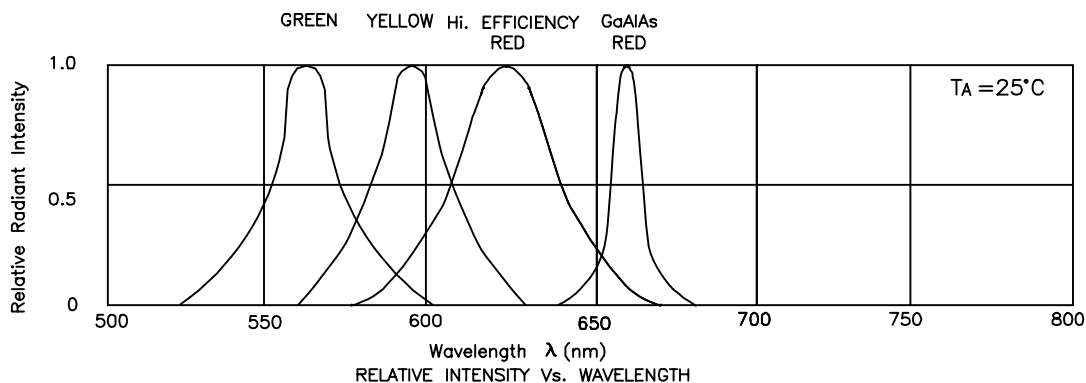
Symbol	Parameter	Device	Min.	Typ.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red		625 565 590 660	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red		45 30 35 20	nm	IF=20mA
V _F	Forward Voltage	All	3.5	9-12	V	Min. IF=6mA Typ. IF=38-56mA
I _{SON}	Supply Current	All		6 -70	mA	
f	Blink Frequency	All		2.5-1.5	Hz	

Absolute Maximum Ratings at T_A=25°C

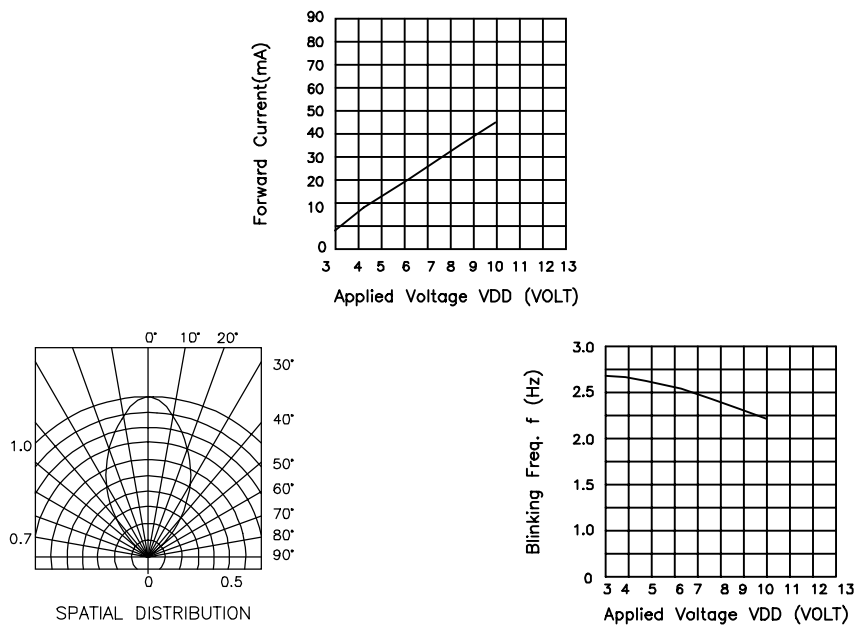
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	200	200	200	200	mW
DC Forward Current	38-56	38-56	38-56	38-56	mA
Reverse Voltage	0.5	0.5	0.5	0.5	V
Operating Temperature	-40°C To +70°C				
Storage Temperature	-50°C To +100°C				
Lead Soldering Temperature [1]	260°C For 5 Seconds				

Notes:

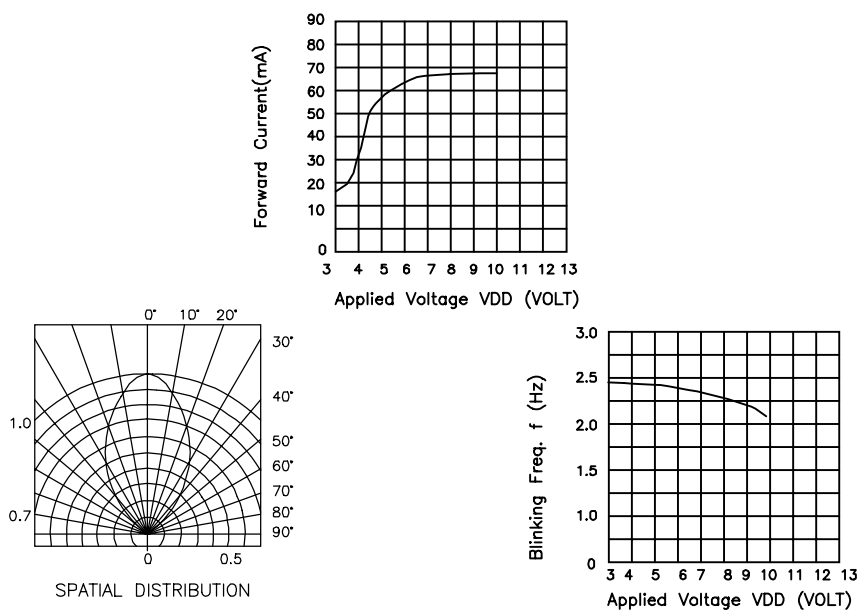
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



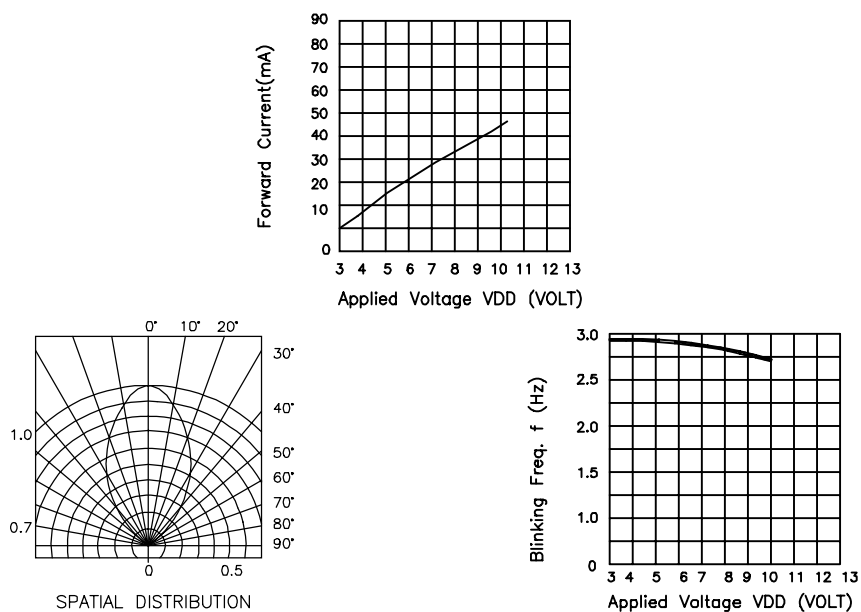
High Efficiency Red L796BID



Green L796BGD



Yellow L796BYD



Super Bright Red L796BSRD/B, L796BSRC/B

