

L-56BHD BRIGHT RED                      L-56BGD GREEN  
 L-56BID HIGH EFFICIENCY RED      L-56BYD YELLOW  
 L-56BSRD-B SUPER BRIGHT RED

### Features

- T-1 PACKAGE WITH RECTANGULAR BASE.
- WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V TO 14V.
- BLINKING FREQUENCY FROM 3.0Hz TO 1.5Hz.

### Description

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

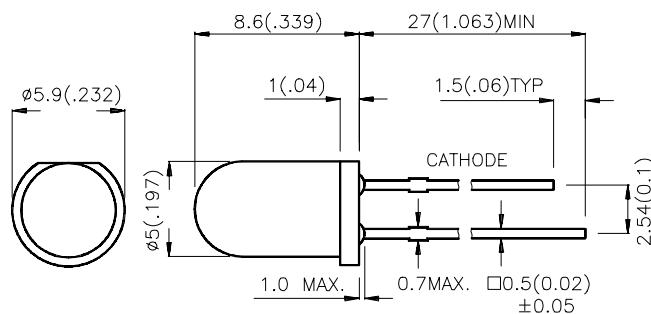
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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 subject to change without notice.

## Selection Guide

Note:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value..

### Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

Symbol	Parameter	Device	Min	Typ	Units	Test Conditions
$\lambda_{\text{peak}}$	Peak Wavelength	Bright Red		700	nm	
		High Efficiency Red		627		
		Green		565		
		Yellow		590		
		Super Bright Red		660		
$\lambda_D$	Dominate Wavelength	Bright Red		660	nm	
		High Efficiency Red		625		
		Green		568		
		Yellow		588		
		Super Bright Red		640		
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Bright Red		45	nm	
		High Efficiency Red		45		
		Green		30		
		Yellow		35		
		Super Bright Red		20		

$\theta$  nm

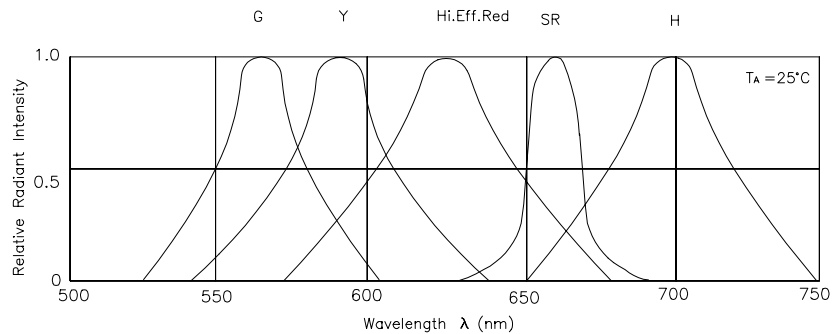
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## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	310	310	310	310	310	mW
DC Forward Current	55	55	55	55	55	mA
Reverse Voltage	0.5	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					

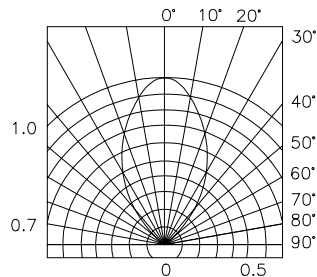
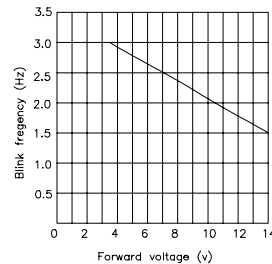
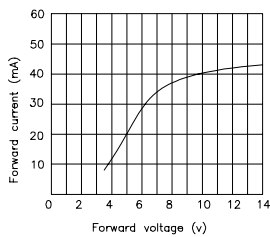
Note:

1. 4mm below package base.



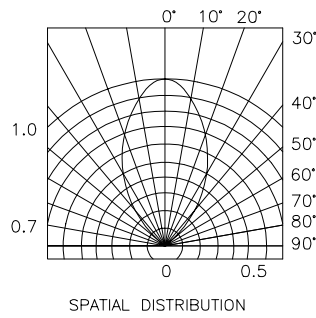
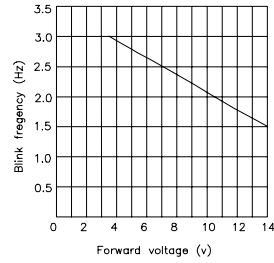
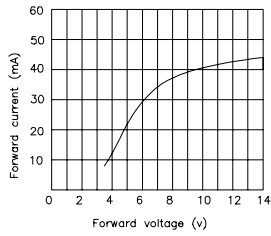
RELATIVE INTENSITY vs. WAVELENGTH

## BRIGHT RED L-56BHD

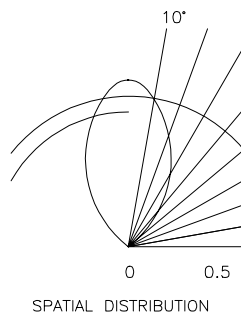
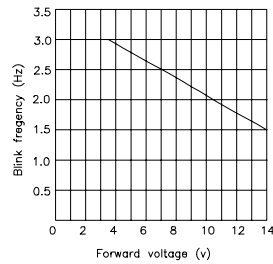
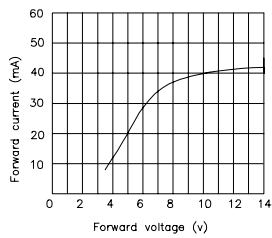


SPATIAL DISTRIBUTION

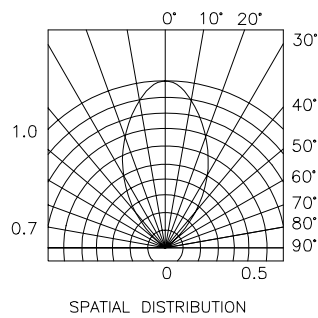
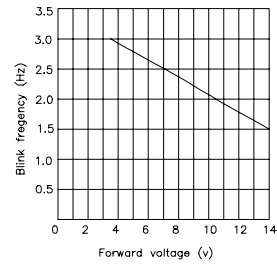
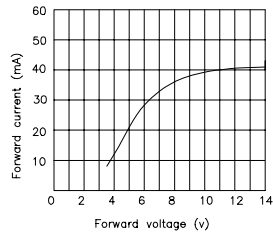
## High Efficiency Red L-56BID



## Green L-56BGD



## Yellow L-56BYD



## Super Bright Red L-56BSRD-B

