

2mm FLAT TOP LED LAMPS

L-13H BRIGHT RED

L-13G GREEN

L-13I HIGH EFFICIENCY RED

L-13Y YELLOW

Features

- •MOUNTS FLUSH WITH PANEL.
- •LOW POWER CONSUMPTION.
- •SUITABLE FOR AUDIO PANEL INDICATOR.
- •FITS 2mm HOLE IN PANEL UP TO 3.5mm (.138").
- •LONG LIFE SOLID STATE RELIABILITY.

Description

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

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

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

ø2(.079) □ <u>0.5(0.02</u> 2.54(0.1) L 1 ANODE

Package Deminions

Notes:

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- 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 lead emerge package.

 4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA		Viewing Angle
			Min.	Max.	2 q1/2
L-13HD	BRIGHT RED (GaP)	RED DIFFUSED	0.5	2	70°
L-13ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	5	12.5	70°
L-13GD	GREEN (GaP)	GREEN DIFFUSED	3.2	12.5	70°
L-13YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	3.2	12.5	70°

Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

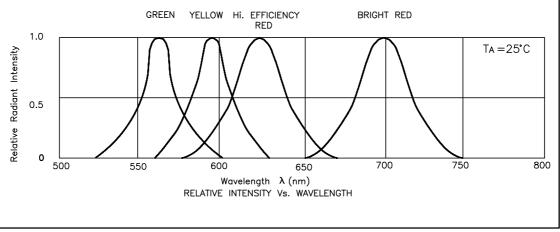
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow	700 625 565 590		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow	45 45 30 35		nm	IF=20mA	
С	Capacitance	Bright Red High Efficiency Red Green Yellow	40 12 45 10		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow	2.0 2.0 2.2 2.1	2.5 2.5 2.5 2.5	V	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

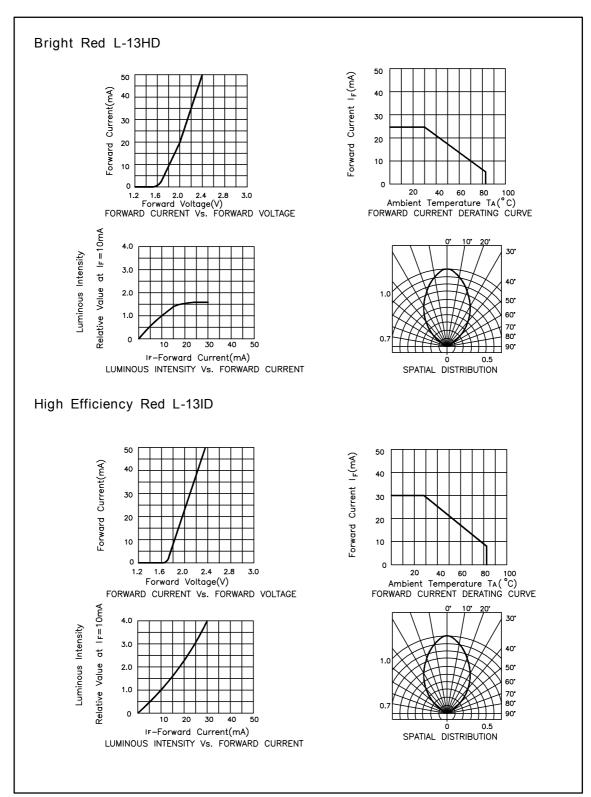
Absolute Maximum Ratings at T_A =25°C

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Units
Power dissipation	120	105	105	105	mW
DC Forward Current	25	30	25	30	mA
Peak Forward Current [1]	150	150	150	150	mA
Reverse Voltage	5	5	5	5	٧
Operating/Storage Temperature	-40°C To +85°C				
Lead Soldering Temperature [2]	260 °C For 5 Seconds				

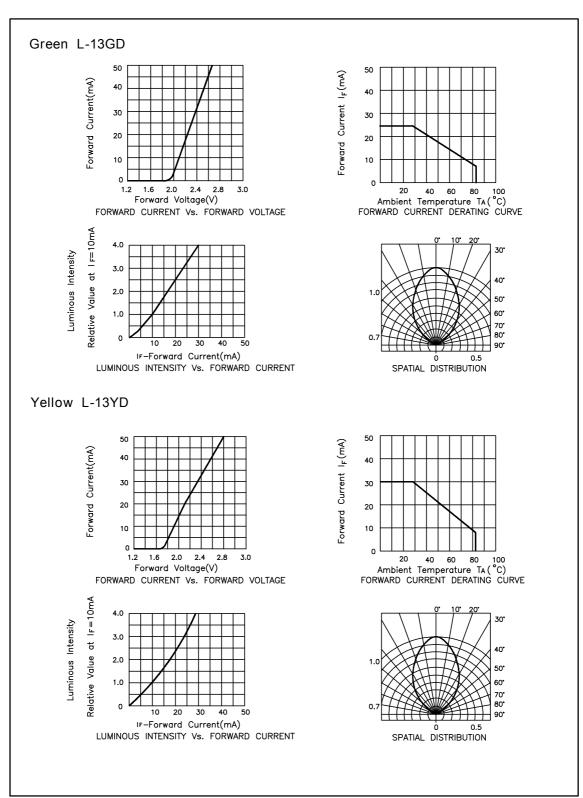
Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



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