

2mm FLAT TOP LED LAMPS

L1394HD BRIGHTRED L1394GD GREEN
L1394ID HIGHEFFICIENCYRED L1394YD YELLOW

Features

- •LOW POWER CONSUMPTION.
- •SUITALBE FOR AUDIO PANEL INDICATOR.
- •FIT 2mm HOLE IN PANELS.
- •LONG LIFE-SOLID STATE RELIABILITY.

Description

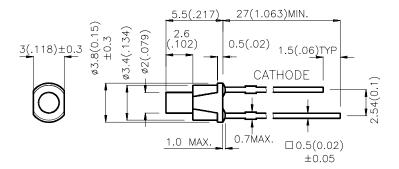
The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

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.

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.

 SPEC NO: CDA0715
 REV NO: V.1
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 APPROVED: J. Lu
 CHECKED:
 DRAWN: R.X.Jin



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA		Viewing Angle
. 2			Min.	Тур.	201/2
L1394HD	BRIGHT RED (GaP)	RED DIFFUSED	0.5	1	70°
L1394ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	5	8	70°
L1394GD	GREEN (GaP)	GREEN DIFFUSED	3	5	70°
L1394YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1.8	5	70°

Note:

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур. Мах.		Units	Test Conditions	
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow	700 627 565 590		nm	IF=20mA	
λD	Dominate Wavelength	Bright Red High Efficiency Red Green Yellow	660 625 568 588		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 15 15 20		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow	2.25 2.0 2.2 2.1	2.5 2.5 2.5 2.5	V	IF=20mA	
l _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]	120	160	140	140	mA		
Reverse Voltage	5	5	5	5	V		
Operating/Storage Temperature	-40°C To +85°C						
Lead Solder Temperature [2]	260°C For 5 Seconds						

Notes

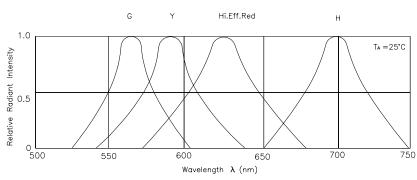
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 4mm below package base.

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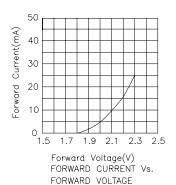
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

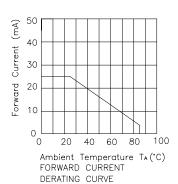


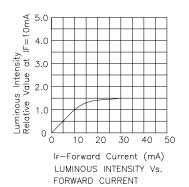


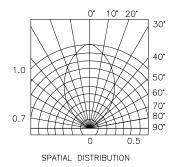
RELATIVE INTENSITY Vs. WAVELENGTH

Bright Red L1394HD





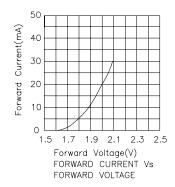


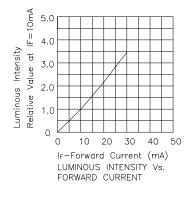


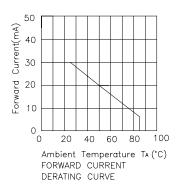
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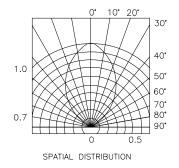
Kingbright

High Efficiency Red L1394ID

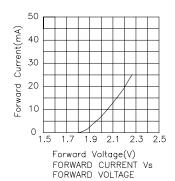


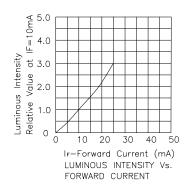


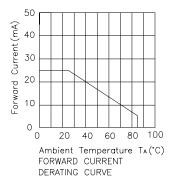


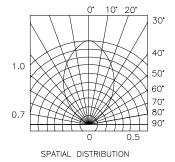


Green L1394GD







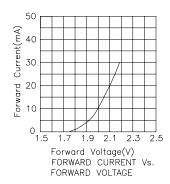


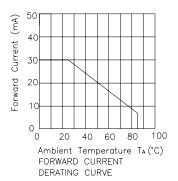
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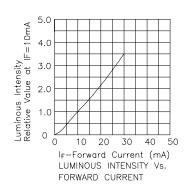
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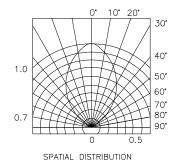
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Yellow L1394YD









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