

#### 1mmx5mm RECTANGULAR SOLID LAMP

L-1053HD

BRIGHT RED

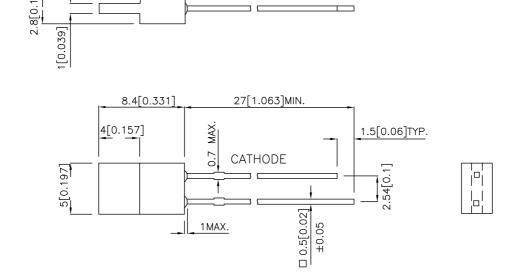
#### **Features**

- •LOW POWER CONSUMPTION.
- •RELIABLE AND RUGGED.
- •EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- •SUITABLE FOR LEVEL INDICATOR.
- •RoHS COMPLIANT.

### **Description**

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

### **Package Dimensions**



- 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 leads emerge from the package.

4. Specifications are subject to change without notice.

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APPROVED: J. Lu

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#### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	<b>2</b> 01/2
L-1053HD	BRIGHT RED (GaP)	RED DIFFUSED	0.4	1	110°

#### Note:

### Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA
λD	Dominant Wavelength	Bright Red	660		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
VF	Forward Voltage	Bright Red	2.25	2.5	V	IF=20mA
lR	Reverse Current	Bright Red		10	uA	VR = 5V

### Absolute Maximum Ratings at Ta=25°C

Parameter	Bright Red			
Power dissipation	120			
DC Forward Current	25			
Peak Forward Current [1]	130	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
ad Solder Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds			

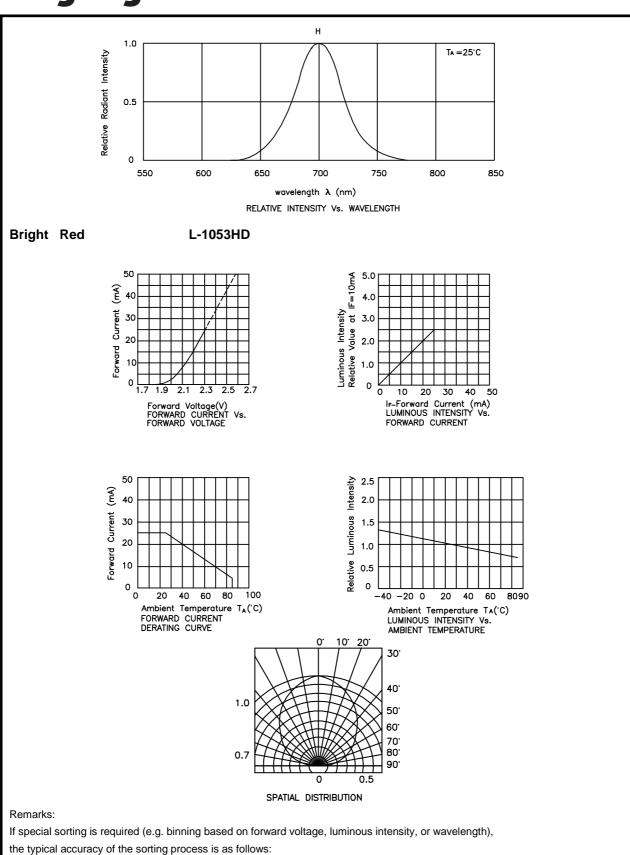
#### Notes:

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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1. Wavelength: +/-1nm

2. Luminous Intensity: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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