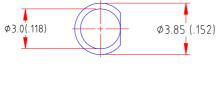
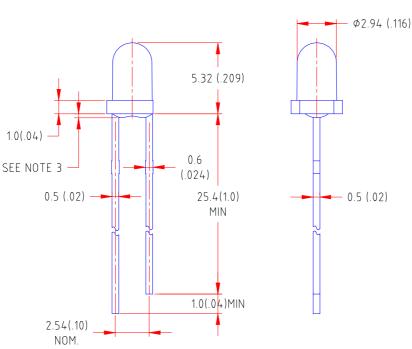


## **Features**

- ♦ Standard T-1 diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

# **Package Dimension:**





Part NO.	Lens Color	Source Color
LL-304HD2E-001	Red Diffused	Red

#### **Notes:**

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  0.25(.010")mm unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice

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

Parameter	MAX.	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	50	mA	
Derating Linear From 50℃	0.4	mA/°C	
Reverse Voltage	5	V	
Operating Temperature Range	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds		

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv		5		mcd	$I_{\rm F}$ =20mA (Note 1)
Viewing Angle	$2 heta_{_{1/2}}$		35		Deg	(Note 2)
Peak Emission Wavelength	λр		700		nm	$I_F$ =20mA
Dominant Wavelength	λd		635		nm	$I_F$ =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$		91		nm	$I_F = 20 \text{mA}$
Forward Voltage	$V_{\mathrm{F}}$		2. 35	2.80	V	$I_{\rm F}$ =20mA
Reverse Current	$I_R$			100	μA	$V_R = 5V$

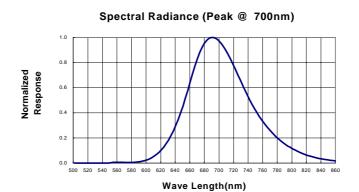
#### Note:

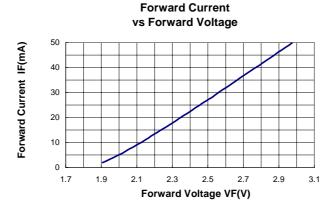
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength ( $\lambda d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

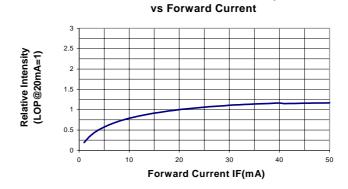
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# Typical Electrical / Optical Characteristics Curves $(25^{\circ}C$ Ambient Temperature Unless Otherwise Noted)







**Relative Luminous Intensity** 

