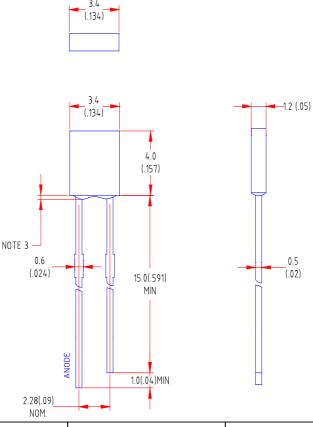


Features

- ♦ 1* 3mm rectangular package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-132HD1M-002	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.

Part No.	LL-132HD1M-002	Spec No.	S/N-01051903D	Page	2 of 4
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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Uni t	
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°C	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℃

Parameter	Symbol	Min.	Тур.	Max.	Uni t	Test Condition	
Luminous Intensity	Iv		0.4		mcd	I _F =20mA (Note 1)	
Viewing Angle	$2 heta_{_{1/2}}$		155		Deg	(Note 2)	
Peak Emission Wavelength	λp		700		nm	I _F =20mA	
Dominant Wavelength	λd		636		nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA	
Forward Voltage	V _F		2.3	2.8	V	I _F =20mA	
Reverse Current	I _R			100	μΑ	V _R =5V	

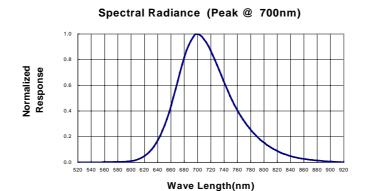
Note:

- 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 (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

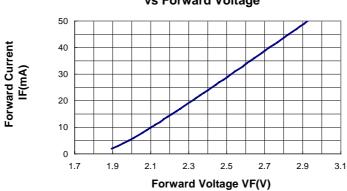
Part No.	LL-132HD1M-002	Spec No.	S/N-01051903D	Page	3 of 4
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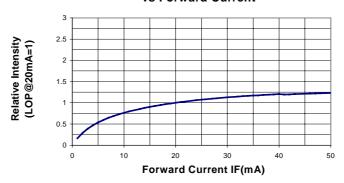
Typical Electrical / Optical Characteristics Curves (25°) Ambient Temperature Unless Otherwise Noted)

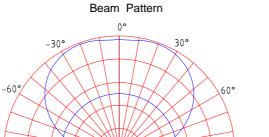


Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current





Relative Intensity (LOP @ MAX=1)