

LL-1003GD2D

DATA SHEET

QC: ENG: Prepared By:

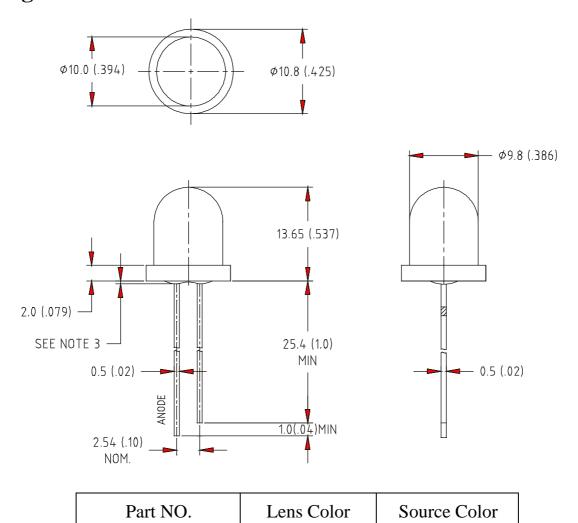
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Features

- ♦ High intensity
- ♦ 10mm diameter package
- ♦ Small viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Notes:

1. All dimensions are in millimeters (inches).

LL-1003GD2D

- 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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Green Diffused

Green



Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	40	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℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	40	45		mcd	I _F =20mA (Note 1)
Viewing Angle	2 H _{1/2}	30	40	50	Deg	(Note 2)
Peak Emission Wavelength	λρ		568		nm	I _F =20mA
Dominant Wavelength	λd		573		nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ		29		nm	I _F =20mA
Forward Voltage	V_{F}		2.1	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.

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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

