Preliminary

LL-1003GD2D-001

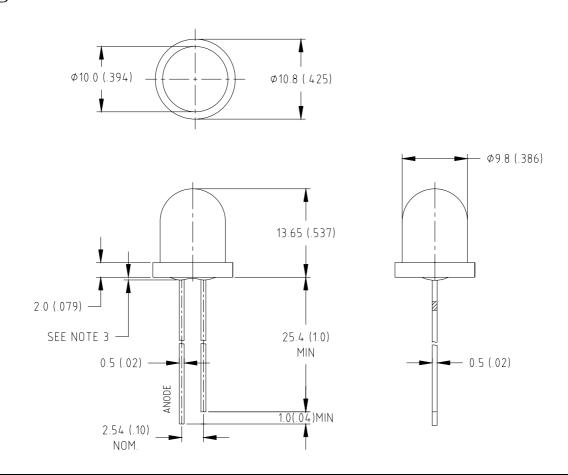
DATA SHEET

QC: ENG: Prepared By:

Features:

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

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color	
LL-1003GD2D-001	GaP	Green Diffused	Green	

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25 mm (.010") 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.
- **6.** This data-sheet only valid for six months.

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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	130	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/	
Reverse Voltage	5	V	
Operating Temperature Range	-40 to +80		
Storage Temperature Range	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds		

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	I _V	7	16	35	mcd	I _f =20mA (Note 1)	
Viewing Angle	2 1/2	55	60	65	Deg	(Note 2)	
Peak Emission Wavelength	р	563	568	573	nm	I f=20mA	
Dominant Wavelength	d	565	570	575	nm	I _f =20mA (Note 3)	
Spectral Line Half-Width		25	30	35	nm	I _f =20mA	
Forward Voltage	V _f	1.7	2.2	2.6	V	I _f =20mA	
Reverse Current	l R			100	μΑ	V _R =5V	

Notes:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (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 Ambient Temperature Unless Otherwise Noted)

