LL-1003ZC2D-002

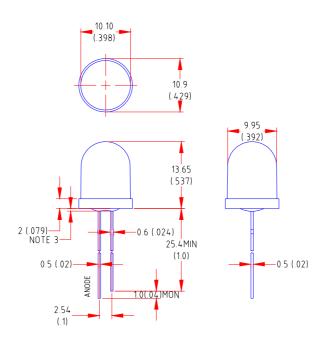
DATA SHEET

QC: ENG: Prepared By:

Features

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

Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color	
LL-1003ZC2D-002	GaInN	Water Clear	Super Bright True Green	

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.
- 6. Caution in ESD:

Siatic Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

7. This data-sheet only valid for six months.

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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	35	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	lv	3800	8000	15000	mcd	I⊨=20mA (Note 1)	
Viewing Angle	2 1/2	15	20	25	Deg	(Note 2)	
Peak Emission Wavelength	р	520	525	530	nm	I=20mA	
Dominant Wavelength	d	520	534	544	nm	I=20mA (Note 3)	
Spectral Line Half-Width		31	36	41	nm	I==20mA	
Forward Voltage	VF	2.8	3.2	4.0	V	I==20mA	
Reverse Current	l R			100	μΑ	V _R =5V	

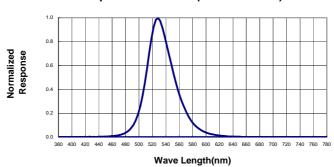
Note:

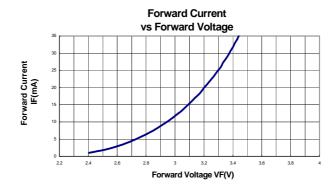
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (d) is derived from the CIE chromaticity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

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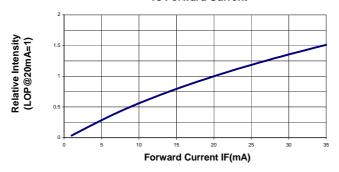
Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)

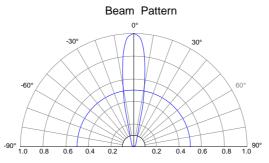
Spectral Radiance (Peak @525nm)





Relative Luminous Intensity vs Forward Current





Relative Intensity (LOP@MAX=1)