

LL-803GC2C-005

DATA SHEET

QC :

ENG :

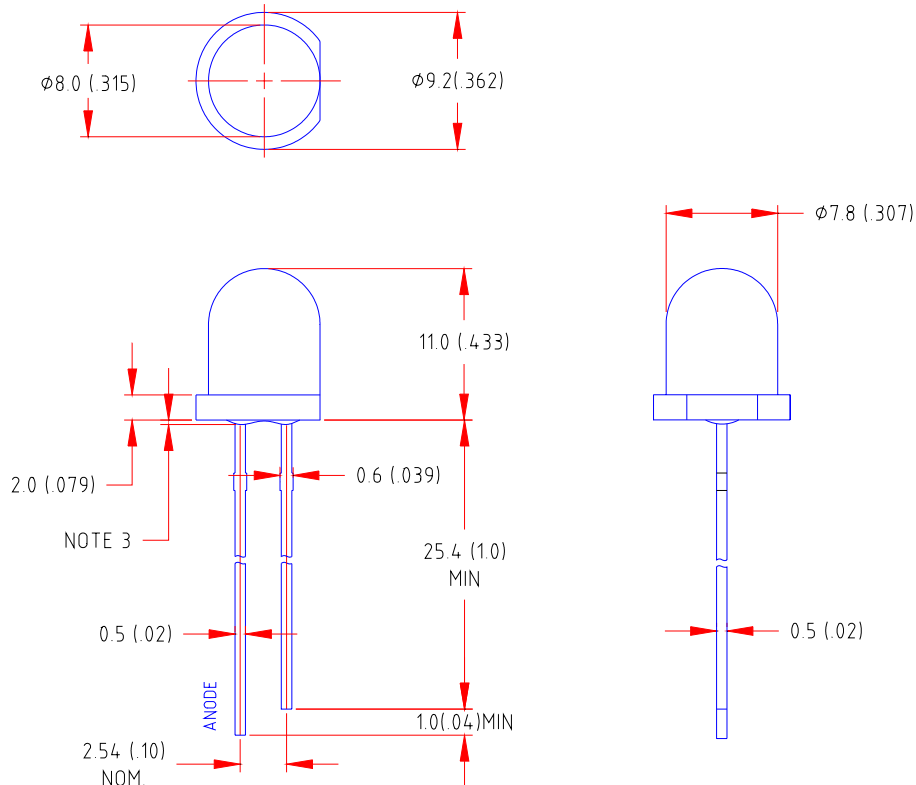
Prepared By:

Part No.	LL-803GC2C-005	Spec No.	S/N-02010318D	Page	1 of 4
----------	----------------	----------	---------------	------	--------

Features

- ◆ Normal 8mm diameter package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color
LL-803GC2C-005	GaP	Water Clear	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 $1.0 \text{ mm} (.04)$ max
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice

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	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.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	400	800	1600	mcd	I _F =20mA (Note 1)
Viewing Angle	2 _{1/2}	15	20	25	Deg	(Note 2)
Peak Emission Wavelength	p	563	568	573	nm	I _F =20mA
Dominant Wavelength	d	565	570	576	nm	I _F =20mA (Note 3)
Spectral Line Half-Width		24	29	34	nm	I _F =20mA
Forward Voltage	V _F	1.7	2.2	2.6	V	I _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. _{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.

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

