LL-803ZC3A-002

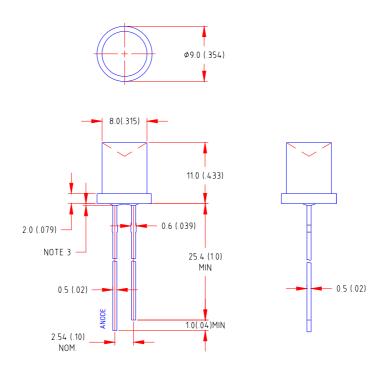
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ High intensity
- ♦ 8mm diameter concave package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color
LL-803ZC3A-002	GaInN	Water Clear	Super Bright True Green

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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.

Part No.	LL-803ZC3A-002	Spec No.	S/N-02031104S	Page	2 of 4
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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

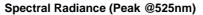
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	50	110	220	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	110	120	130	Deg	(Note 2)	
Peak Emission Wavelength	р	520	525	530	Nm	I==20mA	
Dominant Wavelength	d	520	534	544	Nm	I=20mA (Note 3)	
Spectral Line Half-Width		31	36	41	Nm	I==20mA	
Forward Voltage	V _F	2.8	3.2	4.0	V	I==20mA	
Reverse Current	I R			100	μΑ	V _R =5V	

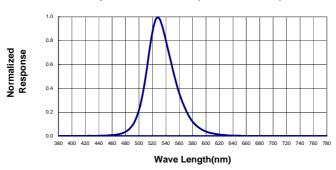
Note:

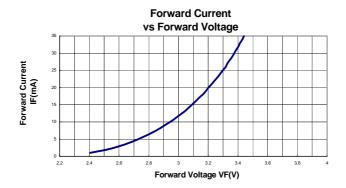
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (d) is derived from the CIE chromaticity diagram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

Part No.	LL-803ZC3A-002	Spec No.	S/N-02031104S	Page	3 of 4
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Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)







Relative Luminous Intensity vs Forward Current

