

LL-803AC1G-001

DATA SHEET

QC :

ENG :

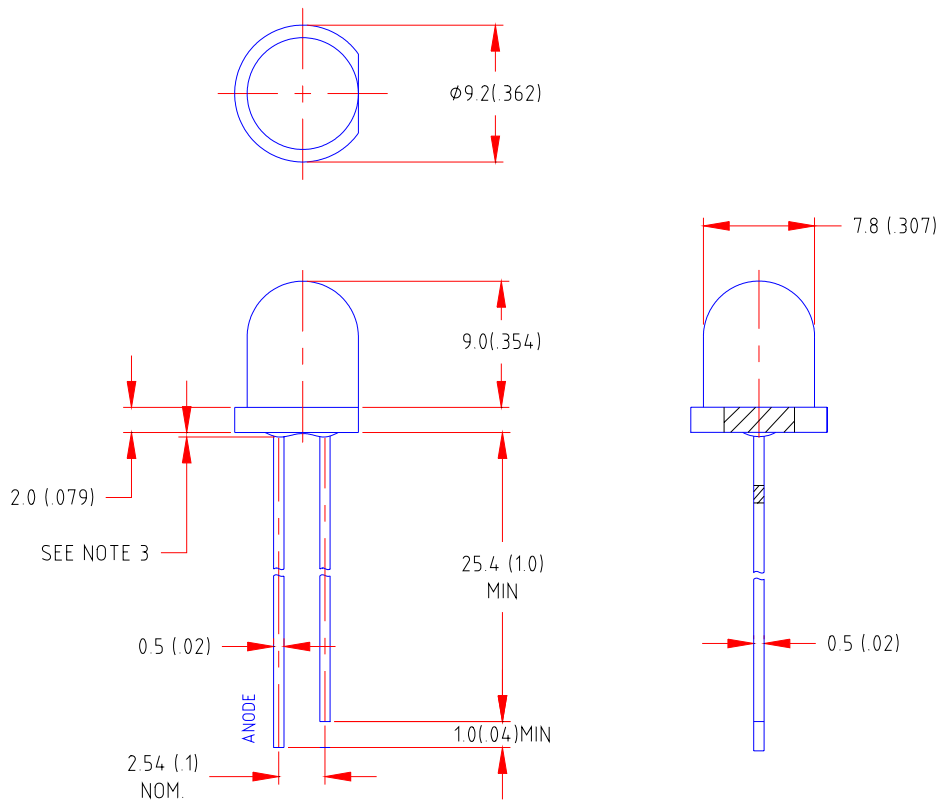
Prepared By: 潘冬梅

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Features

- ◆ High intensity
- ◆ Diameter 8mm package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-803AC1G-001	Water Clear	Amber

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	20	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		1100		mcd	I _F =20mA (Note 1)
Viewing Angle	2 _{1/2}		24		Deg	(Note 2)
Peak Emission Wavelength	λ		612		nm	I _F =20mA
Dominant Wavelength	λ _d		608		nm	I _F =20mA (Note 3)
Spectral Line Half-Width			26		nm	I _F =20mA
Forward Voltage	V _F		2.1	2.5	V	I _F =20mA
Reverse Current	I _R			100	μA	V _R =5V

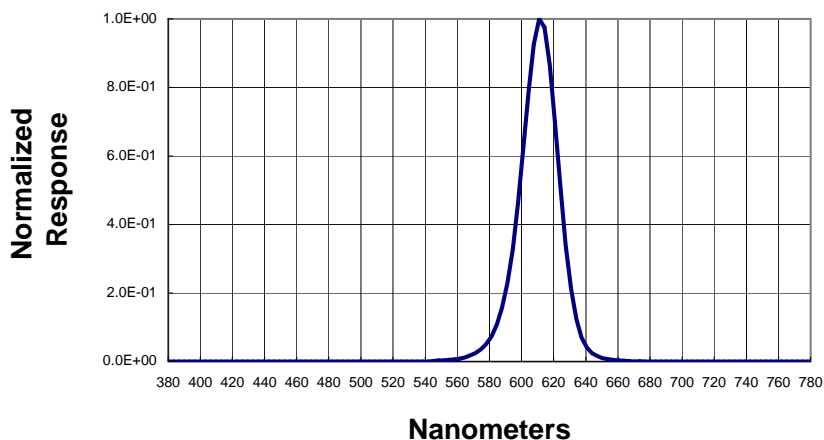
Note:

- 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, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

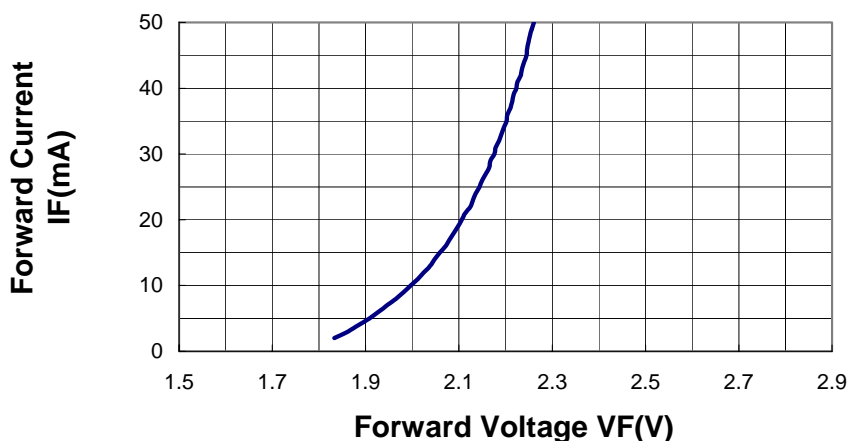
Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)

Spectral Radiance Peak @ 612nm



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

