

LL-803VC2C-V1-3B

DATA SHEET

QC: ENG: Prepared By:

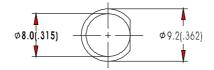
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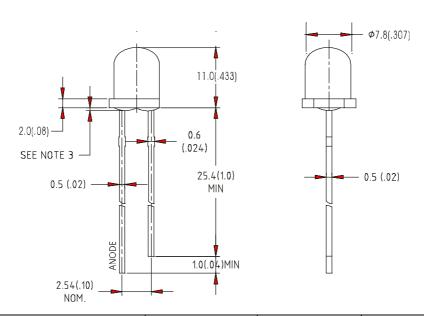


Features

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

Package Dimension:





Part NO.	Chip Material	Lens Color	Source Color
LL-803VC2C-V1-3B	AlGaInP	Water Clear	Super Bright Red

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.

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5. Specifications are subject to change without notice

Absolute Maximum Ratings at Ta=25 $^{\circ}$ C

Parameter	MAX.	Unit		
Power Dissipation	100	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
Continuous Forward Current	25	mA		
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	5	\ \		
Operating Temperature Range	-40°C to +80°C			
Storage Temperature Range	-40°C to +80°C			
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	1800	2800		mcd	I _F =20mA (Note 1)	
Viewing Angle	2 $ heta$ 1/2	10	15	20	Deg	(Note 2)	
Peak Emission Wavelength	λр	627	632	637	nm	I ₌ =20mA	
Dominant Wavelength	λd	615	620	625	nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ	15	20	25	nm	I _F =20mA	
Forward Voltage	V _F	1.6	2.05	2.6	V	I ₌ =20mA	
Reverse Current	l _R			100	μΑ	V _R =5∨	

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye—response curve.
- 2. $\theta_{\text{1/2}}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

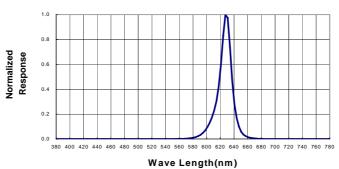
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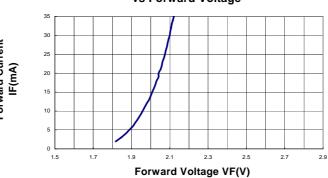
3. The dominant wavelength(λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Typical Electrical / Optical Characteristics Gurves (25 $^{\circ}$ C Ambient Temperature Unless Otherwise Noted)





Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

