Preliminary

LL-803VC2C-015

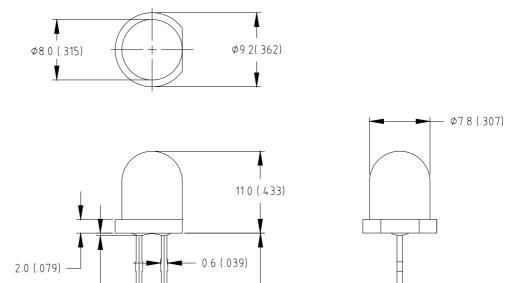
DATA SHEET

QC: ENG: Prepared By:

Features:

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

Package Dimensions:



25.4 (1.0) MIN

1.0(.04)MIN

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Part NO.	Chip Material	Lens Color	Source Color
LL-803VC2C-015	AlGaInP	Water Clear	Super Bright Red

Notes:

1. All dimensions are in millimeters (inches).

NOTE 3

0.5 (.02) -

2.54 (.10) NOM

- 2. Tolerance is ±0.25 mm (.010") 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.** This data-sheet only valid for six months.

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0.5 (.02)

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	Iv	1000	2200	4900	mcd	I _f =20mA (Note 1)
Viewing Angle	2 1/2	25	30	35	Deg	(Note 2)
Peak Emission Wavelength	р	625	630	635	nm	I =20mA
Dominant Wavelength	d	615	620	625	nm	I _f =20mA (Note 3)
Spectral Line Half-Width		15	20	25	nm	I _f =20mA
Forward Voltage	V _f	1.6	1.95	2.5	V	I _f =20mA
Reverse Current	I R			100	μΑ	V _R =5V

Notes:

- 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

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(25 Ambient Temperature Unless Otherwise Noted) Spectral Radiance (Peak @ 630nm) Normalized Response 0.6 Wave Length(nm) **Forward Current** vs Forward Voltage Forward Current IF(mA) Forward Voltage VF(V) **Relative Luminous Intensity** vs Forward Current Relative Intensity (LOP@20mA=1) Forward Current IF(mA) Beam Pattern Relative Intensity (LOP@MAX=1)