LL-803VM3B-001

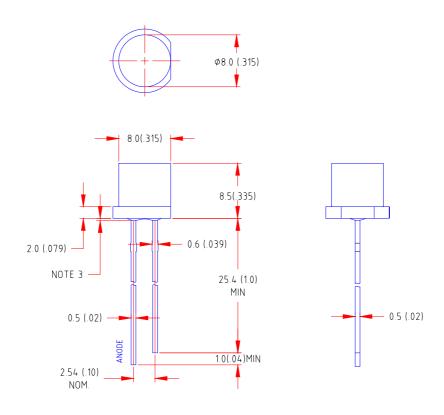
**DATA SHEET** 

QC: ENG: Prepared By:

## **Features**

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

## **Package Dimension:**



Part NO.	Lens Color	Source Color		
LL-803VM3B-001	White Diffused	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.
- 5. Specifications are subject to change without notice

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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	Iv	100	240	400	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	100	110	120	Deg	(Note 2)	
Peak Emission Wavelength	р	627	632	637	nm	I=20mA	
Dominant Wavelength	d	614	620	626	nm	I=20mA (Note 3)	
Spectral Line Half-Width		15	20	25	nm	I=20mA	
Forward Voltage	V <sub>F</sub>	1.6	2.05	2.60	V	I=20mA	
Reverse Current	<b>I</b> R			100	μΑ	V <sub>R</sub> =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.

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

