

LL-1003VC2D-V1-3CB

DATA SHEET

QC: ENG: Prepared By:

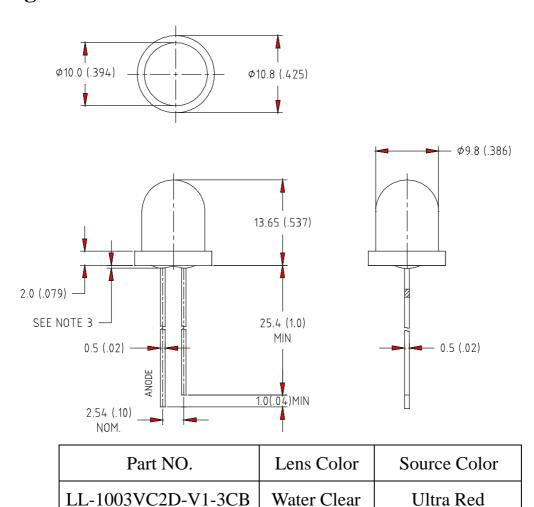
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Features

- ♦ High intensity
- ♦ Standard T-1 3/4 diameter package
- ♦ Small viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



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	40	mA		
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80°C	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Secon	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	2000	3000		mcd	I=20mA (Note 1)	
Viewing Angle	2 \theta 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==20mA	
Forward Voltage	V _F	1.6	2.05	2.6	V	I=20mA	
Reverse Current	IR			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. $\theta_{1/2}$ 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.

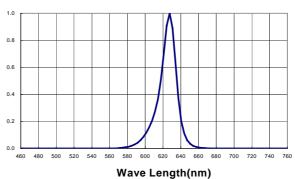
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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

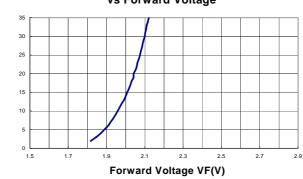






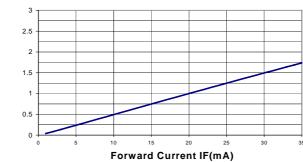
Forward Current vs Forward Voltage



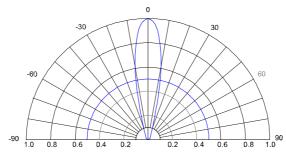


Relative Luminous Intensity vs Forward Current





Beam Pattern



Relative Intensity (LOP@MAX=1)