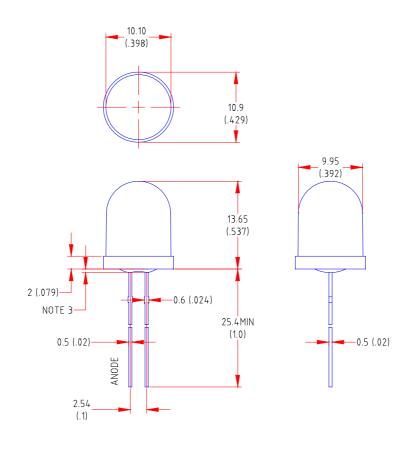


### **Features**

- ♦ High intensity
- ♦ 10mm diameter type package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

## **Package Dimension:**



Part NO.	Lens Color	Source Color		
LL-1003SC2D-002	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.
- 5. Specifications are subject to change without notice

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### **Absolute Maximum Ratings at Ta=25℃**

Parameter	MAX.	Uni t	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100 m		
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		
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.	Uni t	Test Condition
Luminous Intensity	Iv		1000		mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	2 θ <sub>1/2</sub>		20		Deg	(Note 2)
Peak Emission Wavelength	λр		660		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		635		nm	I <sub>F</sub> =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$		24		nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>		1.85	2.5	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>			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.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength ( $\lambda$ 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 $^{\circ}$ C Ambient Temperature Unless Otherwise Noted)

