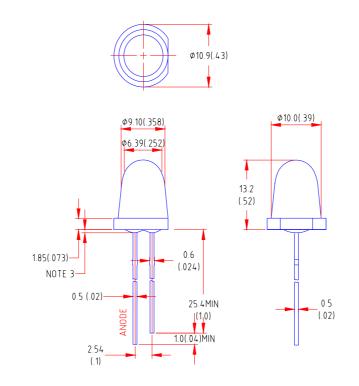


## Features

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

# **Package Dimension:**



Part NO.	Lens Color	Source Color		
LL-1003UC1L-001	Water Clear	Ultra 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	40	mA			
Derating Linear From 50	0.4	mA/			
Reverse Voltage	5	V			
Operating Temperature Range	-40 to +80	-40 to +80			
Storage Temperature Range	-40 to +80	-40 to +80			
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Sec	260 for 5 Seconds			

#### **Electrical Optical Characteristics at Ta=25**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	2500	5400	9000	mcd	I⊧=20mA (Note 1)
Viewing Angle	2 1/2	5	10	15	Deg	(Note 2)
Peak Emission Wavelength	р	652	656	660	nm	I=20mA
Dominant Wavelength	d	630	636	642	nm	I⊧=20mA (Note 3)
Spectral Line Half-Width		20	25	30	nm	I=20mA
Forward Voltage	VF	1.6	2.0	2.6	V	I=20mA
Reverse Current	R			100	μA	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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