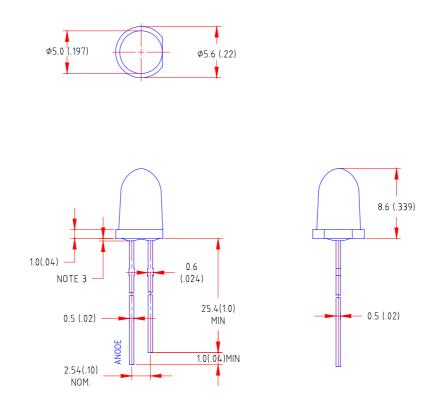


## Features

- High intensity
- 5mm diameter bullet head package
- Wide viewing angle
- General purpose leads
- Reliable and rugged

# **Package Dimension:**



Part NO.	Lens Color	Source Color		
LL-583UC2C-003	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.	Uni t		
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 $^\circ\!\!\mathrm{C}$	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80°	-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°C

Parameter	Symbol	Min.	Тур.	Max.	Uni t	Test Condition
Luminous Intensity	١v		2400		mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	$2\theta_{_{1/2}}$		18		Deg	(Note 2)
Peak Emission Wavelength	λp		656		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		636		nm	I <sub>F</sub> =20mA (Note 3)
Spectral Line Half-Width	$ riangle \lambda$		24		nm	I <sub>F</sub> =20mA
Forward Voltage	$V_{F}$	1.7	2.0	2.6	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>			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.  $\theta_{1/2}$  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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