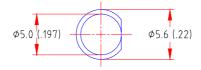
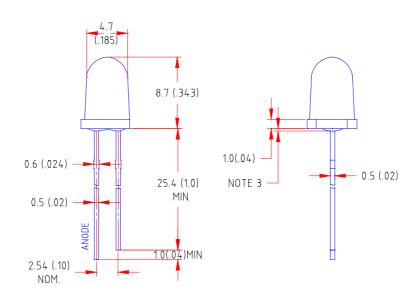


Features

- ♦ 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-583UC1F-005	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°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		1200		mcd	I _F =20mA (Note 1)
Viewing Angle	2 θ _{1/2}		12		Deg	(Note 2)
Peak Emission Wavelength	λр		652		nm	I _F =20mA
Dominant Wavelength	λd		637		nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ		24		nm	I _F =20mA
Forward Voltage	V _F		1.9	2.6	V	I _F =20mA
Reverse Current	I _R			100	μΑ	V _R =5V

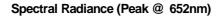
Note:

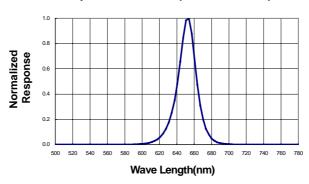
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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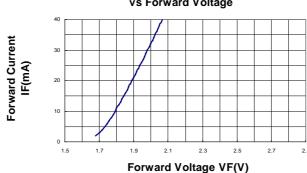


Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

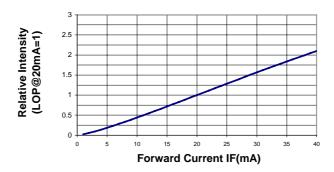




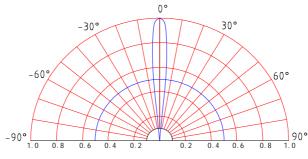
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern



Relative Intensity (LOP @ MAX=1)