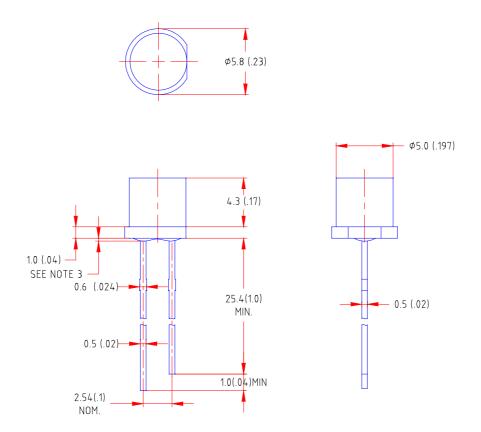


Features

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

Package Dimension:



Part NO.	Lens Color	Source Color
LL-503SC1E-001	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

Part No.	LL-503SC1E-001	Spec No.	S/N-01030805D	Page	2 of 4
----------	----------------	----------	---------------	------	---------------



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		
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.	Unit	Test Condition
Luminous Intensity	Iv		55		mcd	$I_{\rm F}$ =20mA (Note 1)
Viewing Angle	$2 heta_{_{1/2}}$		45		Deg	(Note 2)
Peak Emission Wavelength	λр		660		nm	I_F =20mA
Dominant Wavelength	λd		644		nm	I_F =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$		24		nm	$I_F = 20 \text{mA}$
Forward Voltage	V_{F}		1.85	2. 5	V	$I_{\rm F}$ =20mA
Reverse Current	I_R			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 (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Part No.	LL-503SC1E-001	Spec No.	S/N-01030805D	Page	3 of 4
----------	----------------	----------	---------------	------	---------------



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

