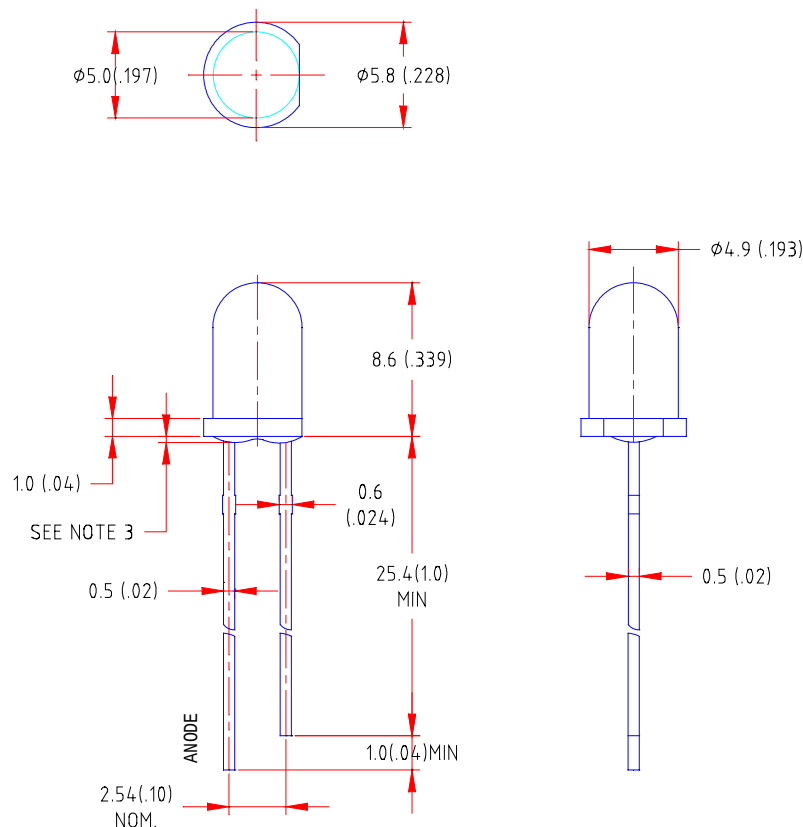


Features

- ◆ Standard T-1 3/4 diameter package
- ◆ Wide viewing angle
- ◆ Infrared Emitting Diode
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-503IRC2E-003	Water Clear	Infrared

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 $1.0 \text{ mm} (.04)$ max
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	35	mA
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

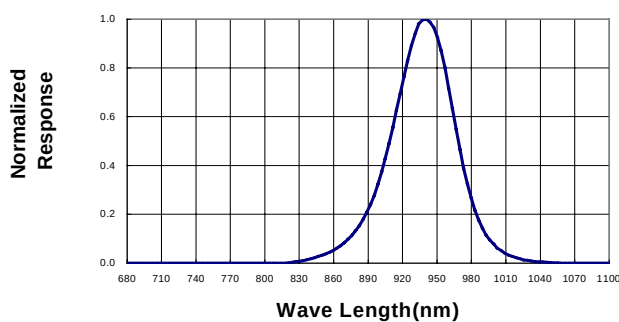
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	I _e	---	23	---	mW/Sr	I _F =20mA
Viewing Angle	2θ _{1/2}	---	22	---	Deg	Note 1
Peak Emission Wavelength	λ _p	---	940	---	nm	I _F =20mA
Spectral Line Half-Width	Δλ	---	60	---	nm	I _F =20mA
Forward Voltage	V _F	---	1.2	1.5	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

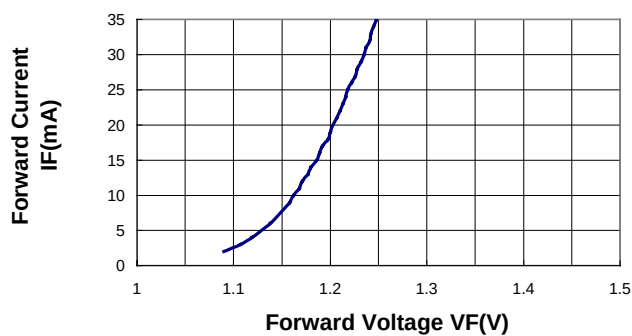
1. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

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

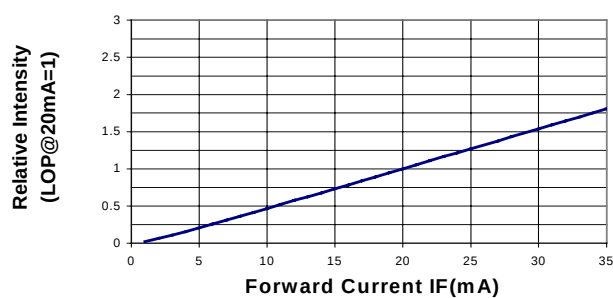
Spectral Radiance (Peak @ 940nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Bram Pattern

