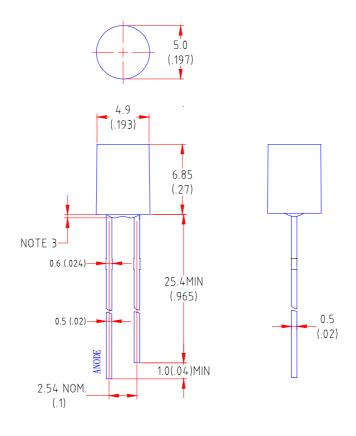


Features

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

Package Dimension:



| Part NO. | Lens Color | Source Color | | |
|----------------|-------------|------------------|--|--|
| LL-503SC3D-003 | 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-503SC3D-003 | Spec No. | S/N-01071613D | 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℃ | 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. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|------|----------------------|
| Luminous Intensity | Iv | | 120 | | mcd | I_F =20mA (Note 1) |
| Viewing Angle | $2	heta_{_{1/2}}$ | | 49 | | Deg | (Note 2) |
| Peak Emission Wavelength | λр | | 660 | | nm | I_F =20mA |
| Dominant Wavelength | λd | | 635 | | nm | I_F =20mA (Note 3) |
| Spectral Line Half-Width | Δλ | | 24 | | nm | $I_{\rm F}$ =20mA |
| Forward Voltage | V_{F} | 1.5 | 1.85 | 2. 4 | V | $I_{\rm F}$ =20mA |
| Reverse Current | I_R | | | 100 | μA | $V_R = 5V$ |

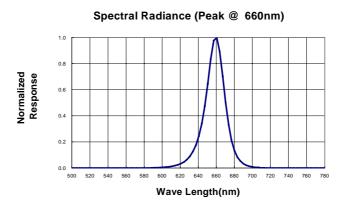
Note:

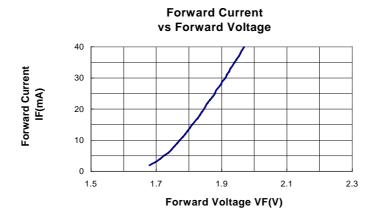
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity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

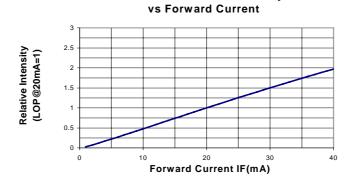
| Part No. | LL-503SC3D-003 | Spec No. | S/N-01071613D | Page | 3 of 4 |
|----------|----------------|----------|---------------|------|---------------|
|----------|----------------|----------|---------------|------|---------------|



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







Relative Luminous Intensity

