

LL-583VC2C-005

DATA SHEET

QC: ENG: Prepared By:

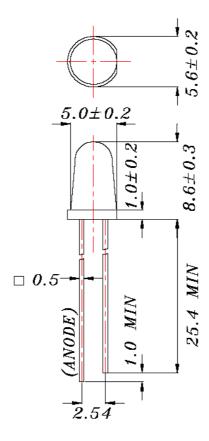
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Features

- ◆High intensity
- ◆popular T-1 3/4 diameter package
- ◆viewing angle=10°
- ◆General purpose leads
- ◆Reliable and rugged

Package Dimension:



| Part NO. | Material | Lens Color | Source Color |
|----------------|----------|-------------|--------------|
| LL-583VC2C-005 | AlGaInP | Water Clear | Ultra Red |

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 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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| Parameter | MAX. | Unit | |
|---|--------------------|------|--|
| Power Dissipation | 90 mW | | |
| Peak Forward Current (1/10 Duty Cycle, O.1ms Pulse Width) | 100 mA | | |
| Continuous Forward Current | 35 mA | | |
| Derating Linear From 50℃ 0.4 | | 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℃ for 5 Seconds | | |

Electrical Optical Characteristics at Ta=25 $^{\circ}$ C

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition |
|--------------------------|----------------------------|------|------|-------|------|---|
| Luminous Intensity | Iv | 7000 | 9000 | 13000 | mcd | $I_{\scriptscriptstyle F}\!\!=\!\!20\text{mA}$ (Note 1) |
| Viewing Angle | 2 θ 1/2 | 8 | 15 | 20 | Deg | (Note 2) |
| Peak Emission Wavelength | λр | 627 | 632 | 637 | nm | $I_{\text{F}} = 20 \text{mA}$ |
| Dominant Wavelength | λd | 615 | 620 | 625 | nm | $I_{\text{F}}=20\text{mA}$ (Note 3) |
| Spectral Line Half-Width | Δλ | 15 | 20 | 25 | nm | $I_{\scriptscriptstyle F}\!\!=\!\!20\text{mA}$ |
| Forward Voltage | $V_{\scriptscriptstyle F}$ | 1.9 | 2. 1 | 2.6 | V | $I_{\text{F}} = 20 \text{mA}$ |
| Reverse Current | $I_{\scriptscriptstyle R}$ | | | 100 | μД | V _R =5V |

Note:

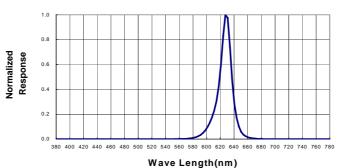
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity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

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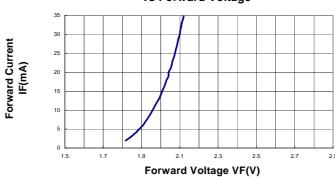


Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)





Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

