LL-1003GC2D-006

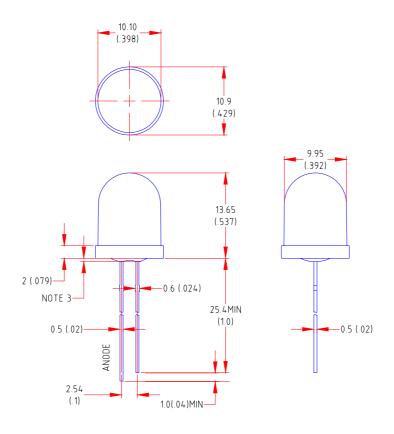
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ High intensity
- ♦ Normal 10mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



| Part NO. | Chip Material | Lens Color | Source Color |
|---------------------|---------------|-------------|-----------------------|
| LL-1003GC2D-00 6 | AlGaInP | Water Clear | Super Bright Green |

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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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 | 35 | mA | |
| Derating Linear From 50 | 0.4 | mA/ | |
| Reverse Voltage | 5 | V | |
| Operating Temperature Range | -40 to +80 | | |
| Storage Temperature Range | -40 to +80 | | |
| Lead Soldering Temperature [4mm(.157") From Body] | 260 for 5 Seconds | | |

Electrical Optical Characteristics at Ta=25

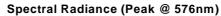
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition | |
|--------------------------|----------------|------|------|------|------|-------------------------------|--|
| Luminous Intensity | lv | 500 | 1100 | 2400 | mcd | I=20mA (Note 1) | |
| Viewing Angle | 2 1/2 | 15 | 20 | 25 | Deg | (Note 2) | |
| Peak Emission Wavelength | р | 571 | 576 | 580 | nm | I=20mA | |
| Dominant Wavelength | d | 566 | 573 | 577 | nm | I _F =20mA (Note 3) | |
| Spectral Line Half-Width | | 14 | 19 | 24 | nm | I=20mA | |
| Forward Voltage | V _F | 1.7 | 2.0 | 2.5 | V | I=20mA | |
| Reverse Current | I R | | | 100 | μΑ | V _R =5V | |

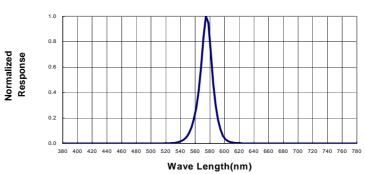
Note:

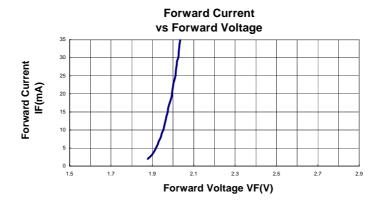
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (d) is derived from the CIE chromaticity diagram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

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







Relative Luminous Intensity vs Forward Current

