LUCKY LIGHT

# LL-543GC1H-005

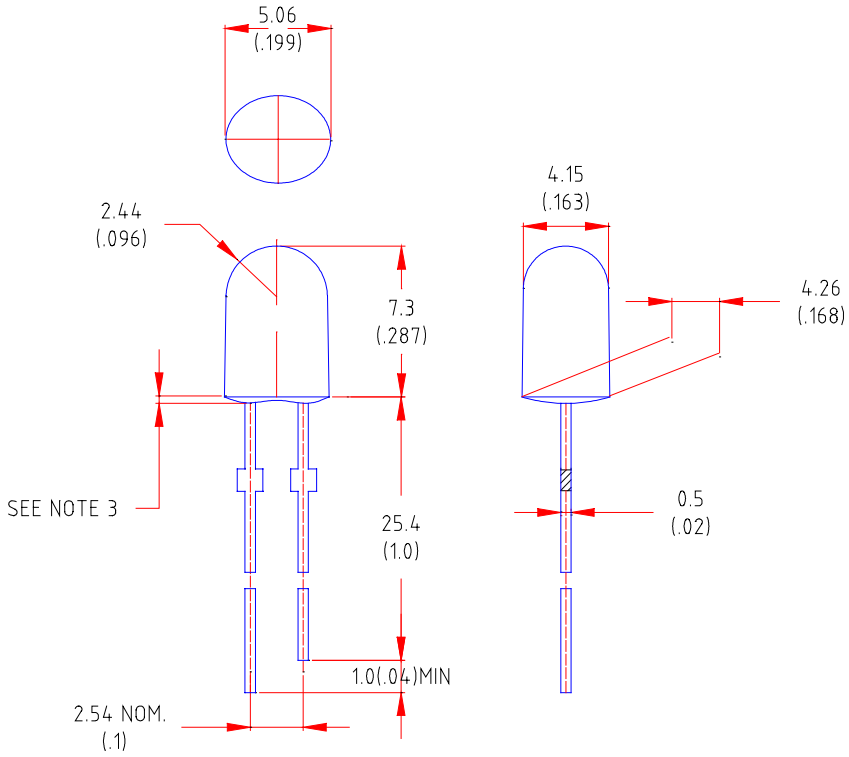
## DATA SHEET

CHECK BY: MODIFIED BY: 潘冬梅 DATE: 2000/04/08

## Features

- High intensity
- Popular Ellipse type diameter package
- Selected minimum intensities
- Wide viewing angle
- General purpose leads
- Reliable and rugged

## Package Dimension:




| Part NO. LL- | Lens Color | Source Color |
|---|---|---|
| 543GC1H-005 | Water Clear | Green |

**Notes:**

1. All dimensions are in millimeters.
2. Tolerance is ±0.25mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm 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℃

| Parameter | LL-543GC1H-005 | Unit |
|---|---|---|
| Power Dissipation | 100 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | mA |
| Continuous Forward Current | 20 | mA |
| Debating 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. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Luminous Intensity | Iv | | 250 | | mcd | $I_f$=20mA Note 1 |
| Viewing Angle | $2\theta_{1/2}$ | | 35 | | Deg | Note 2 (Fig.1) |
| Peak Emission Wavelength | λp | | 565 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λd | | 571 | | nm | Note 3 |
| Spectral Line Half-Width | △λ | | 29 | | nm | |
| Forward Voltage | $V_F$ | | 2.2 | 2.6 | V | $I_F$=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.

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