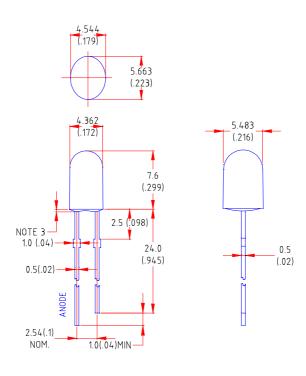


Features

- ♦ High intensity
- ◆ 5x4mm diameter ellipse package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



| Part NO. | Lens Color | Source Color |
|----------------|-------------------|----------------------------|
| LL-544ZT1Q-001 | Green Transparent | Super Bright True Green |

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.
- 6. Caution in ESD: Siatic Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded..

| Part No. | LL-544ZT1Q-001 | Spec No. | S/N-01092825S | Page | 2 of 4 |
|----------|----------------|----------|---------------|------|---------------|
|----------|----------------|----------|---------------|------|---------------|



Absolute Maximum Ratings at Ta=25℃

| Parameter | MAX. | Uni t | |
|--|---------------------|-------|--|
| 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°C | 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 | | Mi n. | Тур. | Max. | Uni t | Test Condition |
|--------------------------|----------------|----------------|-------|------|------|-------|-------------------------------|
| Luminous Intensity | Iv | | 1100 | 2500 | | mcd | I _F =20mA (Note 1) |
| Viewing Angle | 2θ | X(Axis) | 22 | 28 | 34 | Deg | (Note 2) |
| | 1/2 | Y(Axis) | 52 | 58 | 64 | | |
| Peak Emission Wavelength | | λp | 523 | 528 | 533 | Nm | I _F =20mA |
| Dominant Wavelength | | λd | 526 | 536 | 546 | Nm | I _F =20mA (Note 3) |
| Spectral Line Half-Width | | △λ | 50 | 55 | 60 | Nm | I _F =20mA |
| Forward Voltage | V _F | | 2.8 | 3. 2 | 3.8 | V | I _F =20mA |
| Reverse Current | | I _R | | | 100 | μΑ | $V_R=5V$ |

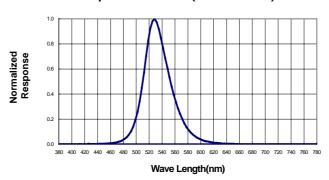
Note:

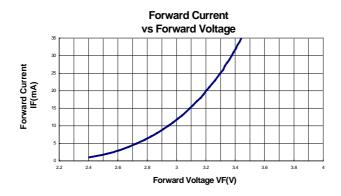
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity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



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

Spectral Radiance (Peak @528nm)





Relative Luminous Intensity vs Forward Current

