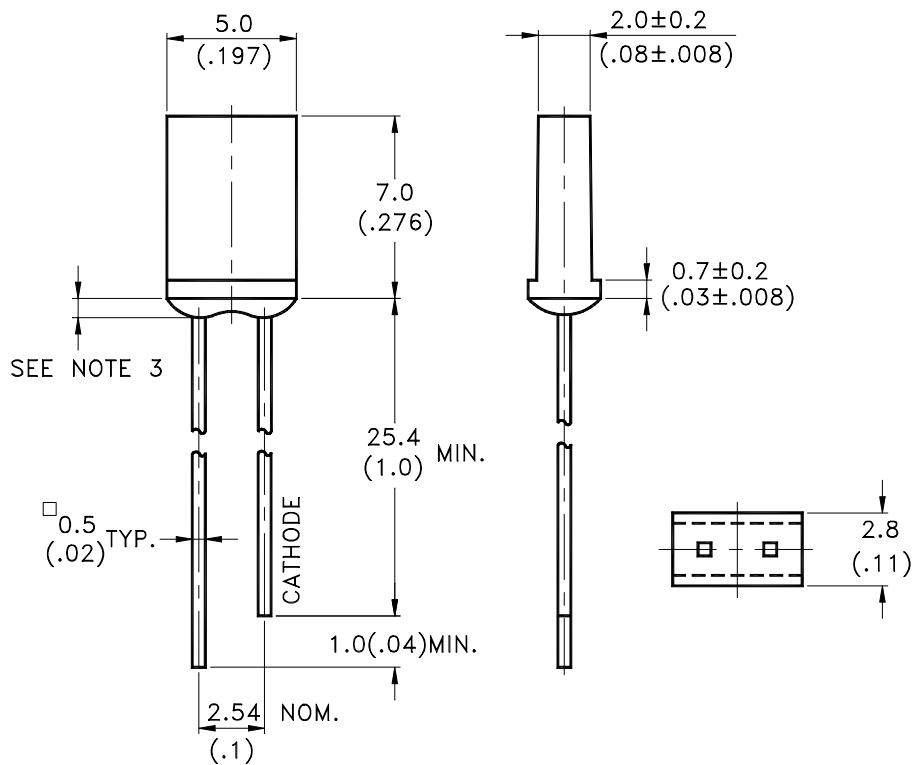


Features

- * Low power consumption.
- * Most suitable for use like level indicator.
- * Excellent uniformity of light emittance.
- * Long life-solid state reliability.
- * I.C. compatible.

Package Dimensions

| Part No. | Lens | Source Color |
|-------------|----------------|--------------|
| LTL-3231A-U | Green Diffused | Green |

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010")$ 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. : LTL-3231A-U | Page : 1 of 4 |
|------------------------|---------------|



LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Absolute Maximum Ratings at TA=25°C

| Parameter | Maximum Rating | Unit |
|--|---------------------|-------|
| Power Dissipation | 100 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 120 | mA |
| Continuous Forward Current | 30 | mA |
| Derating Linear From 50°C | 0.4 | mA/°C |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -55°C to + 100°C | |
| Storage Temperature Range | -55°C to + 100°C | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260°C for 5 Seconds | |



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Electrical Optical Characteristics at $T_A=25^\circ C$

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-----------------|------|------|------|---------------|---------------------------------|
| Luminous Intensity | I_V | 0.7 | 2.5 | | mcd | $I_F = 10\text{mA}$ Note 1,4 |
| Viewing Angle | $2\theta_{1/2}$ | | 140 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | λ_P | | 565 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λ_d | | 569 | | nm | Note 3 |
| Spectral Line Half-Width | $\Delta\lambda$ | | 30 | | nm | |
| Forward Voltage | V_F | | 2.1 | 2.6 | V | $I_F = 20\text{mA}$ |
| Reverse Current | I_R | | | 100 | μA | $V_R = 5\text{V}$ |
| Capacitance | C | | 35 | | pF | $V_F = 0, f = 1\text{MHz}$ |

- Note:
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) 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.
 4. The I_V guarantee should be added $\pm 15\%$.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

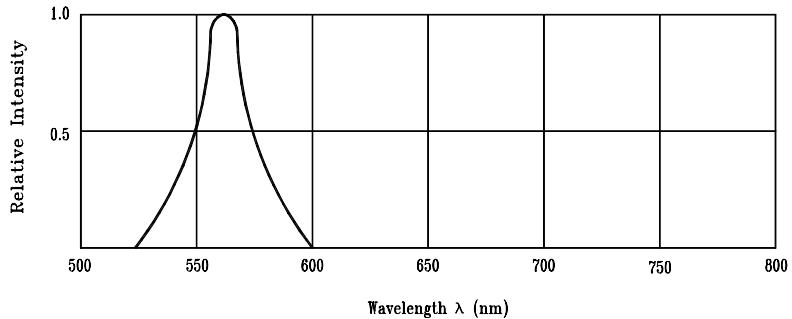


Fig.1 Relative Intensity vs. Wavelength

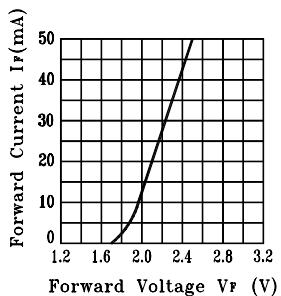
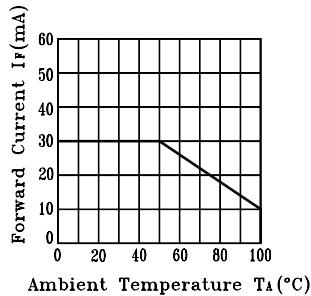
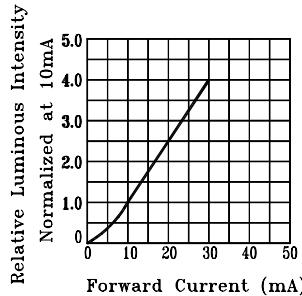
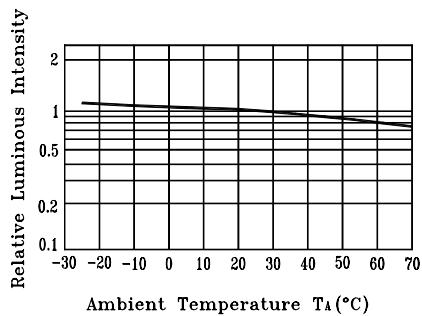
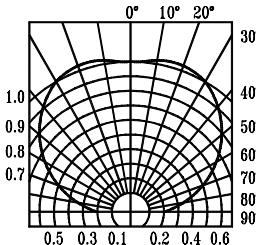
Fig.2 Forward Current vs.
Forward VoltageFig.3 Forward Current
Derating CurveFig.4 Relative Luminous Intensity
vs. Forward CurrentFig.5 Luminous Intensity vs.
Ambient Temperature

Fig.6 Spatial Distribution