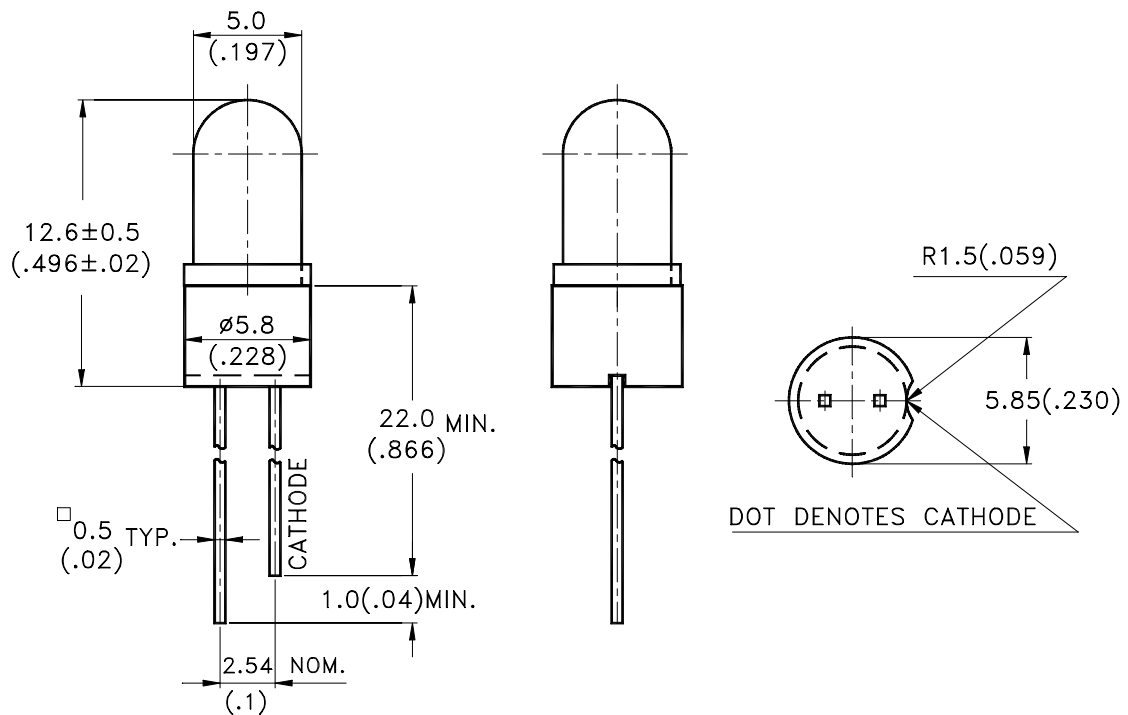


Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions



| Lamp Part No. | Lens | Source Color |
|---------------|-----------------|--------------|
| LTL-307Y | Yellow Diffused | Yellow |

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
3. The spacer color is black.



Absolute Maximum Ratings at Ta=25°C

| Parameter | Maximum Rating | Unit |
|--|---------------------|-------|
| Power Dissipation | 60 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 80 | mA |
| Continuous Forward Current | 20 | mA |
| Derating Linear From 50°C | 0.25 | 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 | |

Electrical Optical Characteristics at Ta=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|------|-----------------------------------|
| Luminous Intensity | I _v | 8.7 | 29 | | mcd | I _F = 10mA Note 1,4 |
| Viewing Angle | 2θ _{1/2} | | 50 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | λ _p | | 585 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λ _d | | 588 | | nm | Note 3 |
| Spectral Line Half-Width | Δλ | | 35 | | nm | |
| Forward Voltage | V _F | | 2.1 | 2.6 | V | I _F = 20mA |
| Reverse Current | I _R | | | 100 | μA | V _R = 5V |
| Capacitance | C | | 15 | | pF | V _F = 0, f = 1MHz |

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{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. I_v needs ±15% additional for guaranteed limits.

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

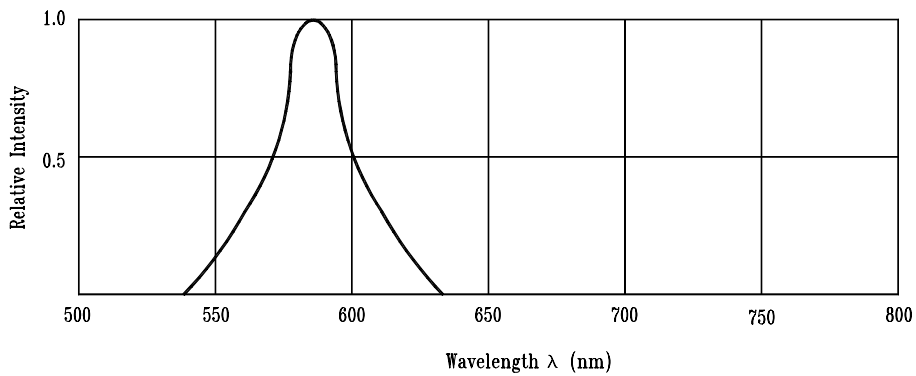


Fig.1 Relative Intensity vs. Wavelength

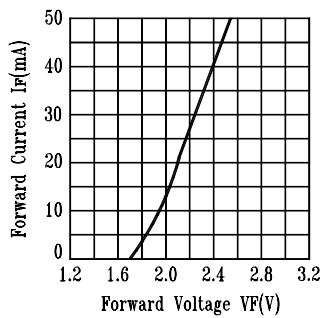


Fig.2 Forward Current vs. Forward Voltage

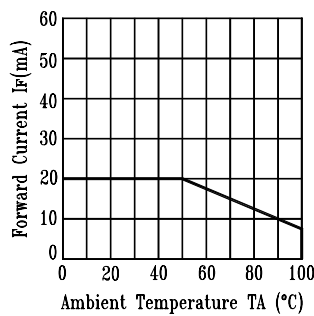


Fig.3 Forward Current Derating Curve

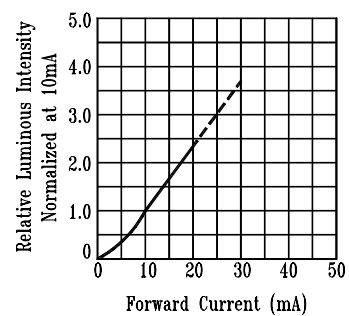


Fig.4 Relative Luminous Intensity vs. Forward Current

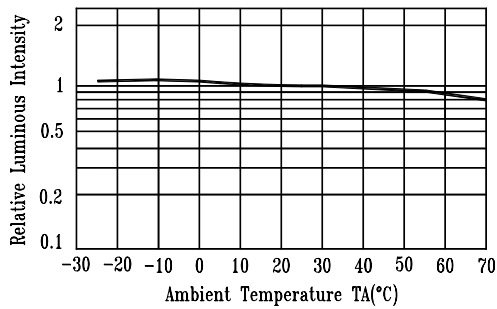


Fig.5 Luminous Intensity vs. Ambient Temperature

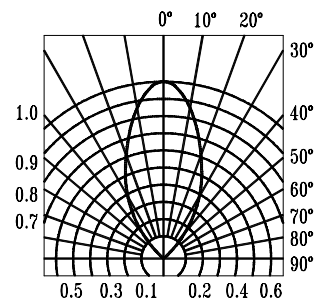


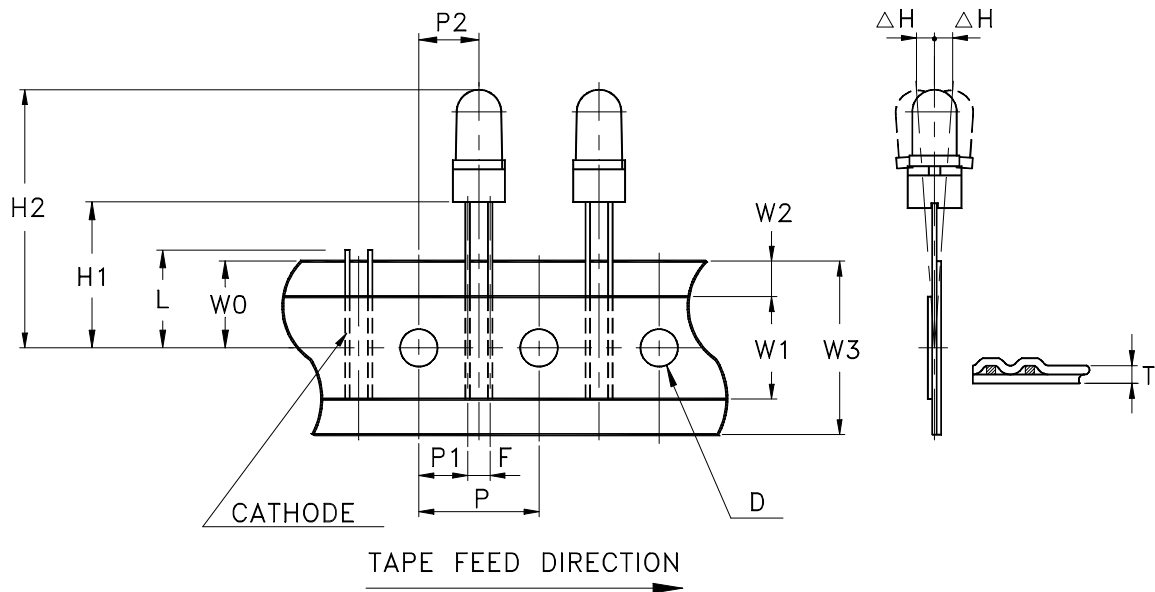
Fig.6 Spatial Distribution

Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and reel.
- * 2.54mm (0.1") straight lead spacing available.
- * Reel packaging simplifies handling and testing.

Package Dimensions



| Item | Symbol | Specification | | | |
|---------------------------------------|------------|---------------|-------|---------|-------|
| | | Minimum | | Maximum | |
| | | mm | inch | mm | inch |
| Tape Feed Hole Diameter | D | 3.8 | 0.149 | 4.2 | 0.165 |
| Component Lead Pitch | F | 2.3 | 0.091 | 3.0 | 0.118 |
| Front to Rear Deflection | ΔH | -- | -- | 2.0 | 0.078 |
| Feed Hole to Bottom of Component | H1 | 17.5 | 0.689 | 18.5 | 0.728 |
| Feed Hole to Overall Component Height | H2 | 29.6 | 1.165 | 31.6 | 1.244 |
| Lead Length After Component Height | L | W0 | | 11.0 | 0.433 |
| Feed Hole Pitch | P | 12.4 | 0.488 | 13.0 | 0.511 |
| Lead Location | P1 | 4.4 | 0.173 | 5.8 | 0.228 |
| Center of Component Location | P2 | 5.05 | 0.198 | 7.65 | 0.301 |
| Total Taped Thickness | T | -- | -- | 0.90 | 0.035 |
| Feed Hole Location | W0 | 8.5 | 0.334 | 9.75 | 0.384 |
| Adhesive Tape Width | W1 | 12.5 | 0.492 | 13.5 | 0.531 |
| Adhesive Tape Position | W2 | 0 | 0 | 3.0 | 0.118 |
| Tape Width | W3 | 17.5 | 0.689 | 19.0 | 0.748 |

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