



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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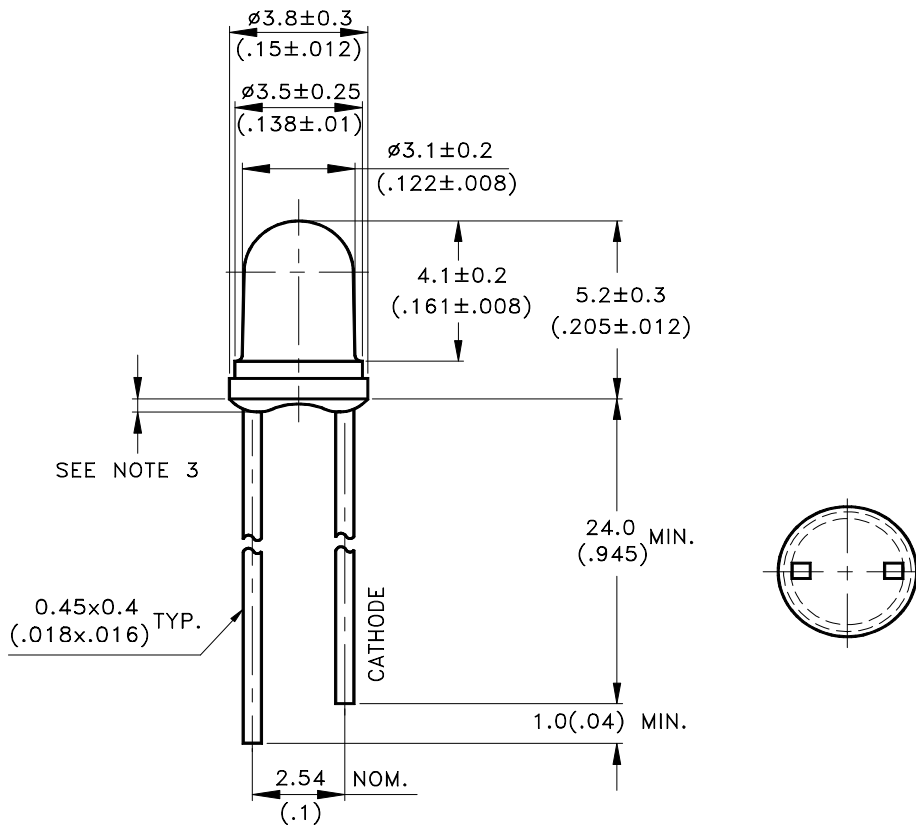
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Features

- * Low power consumption.
- * High efficiency.
- * Versatile mounting on P.C. board or panel.
- * I.C. compatible/low current requirement.
- * 3.1 mm diameter package.

Package Dimensions



| Part No. | Lens | Source Color |
|----------|-----------------|--------------|
| LTL-1CHY | Yellow Diffused | Yellow |

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010\text{'})$ unless otherwise noted.
3. Protruded resin under flange is $1.0\text{mm}(.04\text{'})$ 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 $T_A=25^{\circ}\text{C}$

| 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/ $^{\circ}\text{C}$ |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -55°C to $+100^{\circ}\text{C}$ | |
| Storage Temperature Range | -55°C to $+100^{\circ}\text{C}$ | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260 $^{\circ}\text{C}$ for 5 Seconds | |

Electrical Optical Characteristics at T_A=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|------|-----------------------------------|
| Luminous Intensity | I _v | 2.5 | 8.7 | | mcd | I _F = 10mA Note 1,4 |
| Viewing Angle | 2θ _{1/2} | | 60 | | 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 (Commission International De L'Eclairage) 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. The I_v guarantee should be added ± 15% .

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

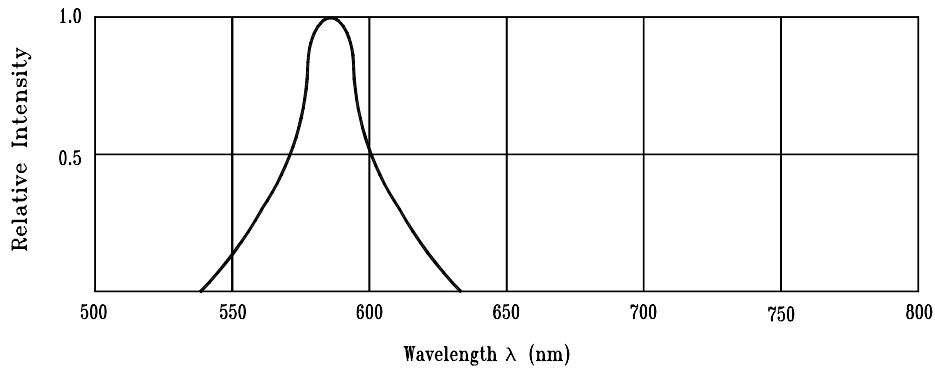


Fig.1 Relative Intensity vs. Wavelength

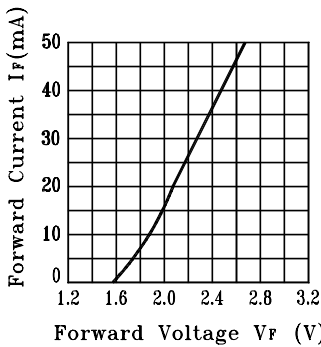


Fig.2 Forward Current vs. Forward Voltage

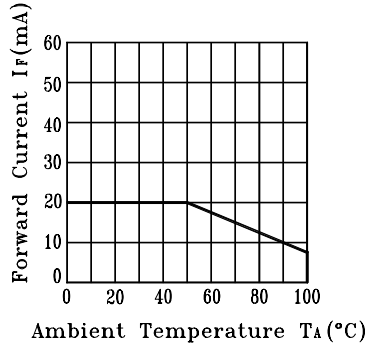


Fig.3 Forward Current Derating Curve

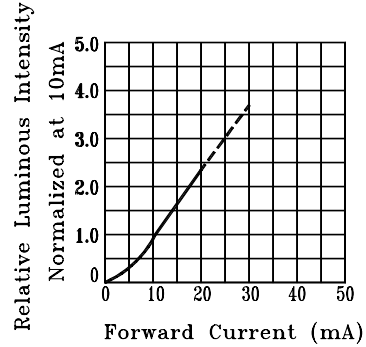


Fig.4 Relative Luminous Intensity vs. Forward Current

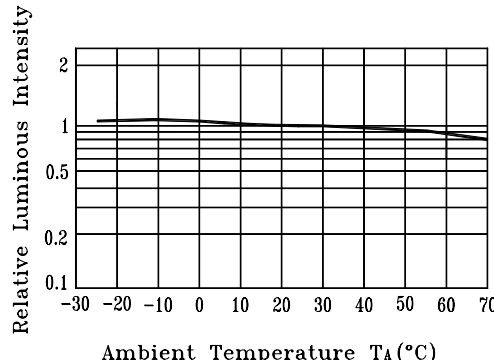


Fig.5 Luminous Intensity vs. Ambient Temperature

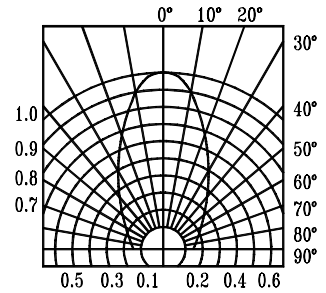


Fig.6 Spatial Distribution