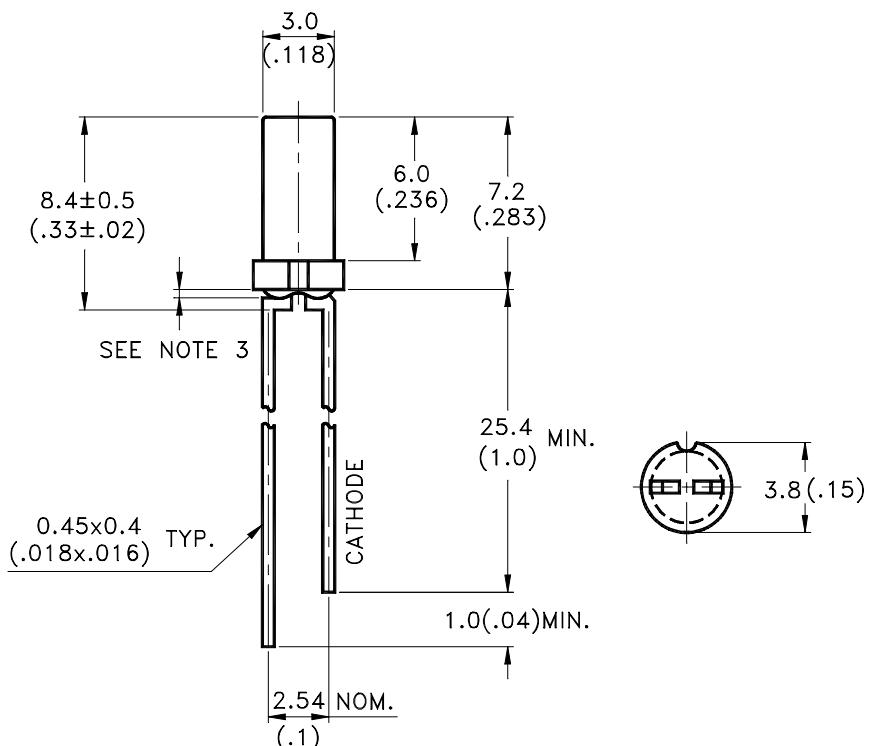


**Features**

- \* Cylindrical shape.
- \* Low power consumption.
- \* I.C. compatible
- \* Long life solid state reliability.

**Package Dimensions**

Part No.	Lens	Source Color
LTL-2231AT	Green Diffused	Green

**NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm(.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.

**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	

**Electrical / Optical Characteristics at TA=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>V</sub>	1.1	3.7		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2θ <sub>1/2</sub>		180		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ <sub>P</sub>		565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ <sub>d</sub>		569		nm	Note 3
Spectral Line Half-Width	Δ λ		30		nm	
Forward Voltage	V <sub>F</sub>		2.1	2.6	V	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>			100	μA	V <sub>R</sub> = 5V
Capacitance	C		35		pF	V <sub>F</sub> = 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<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
  3. The dominant wavelength, λ<sub>d</sub> is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
  4. The I<sub>V</sub> guarantee should be added ± 15% .

**Typical Electrical / Optical Characteristics Curves**

(25°C Ambient Temperature Unless Otherwise Noted)

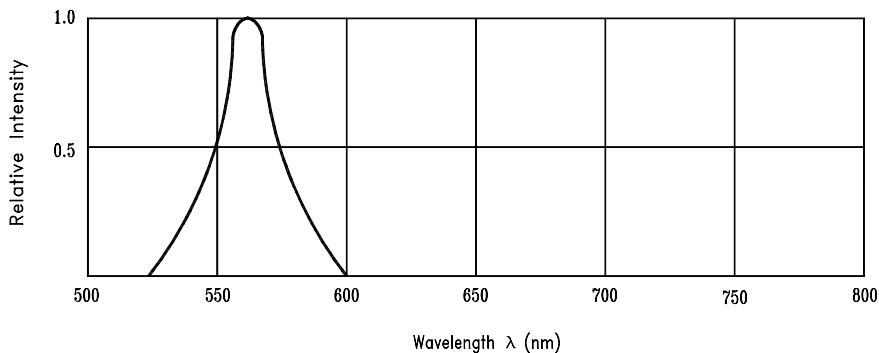


Fig.1 Relative Intensity vs. Wavelength

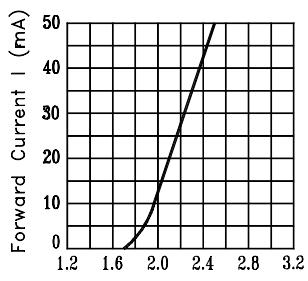
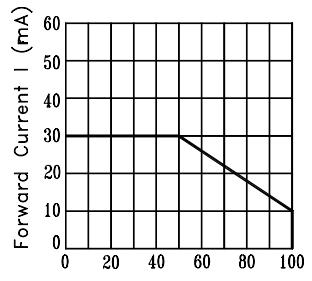
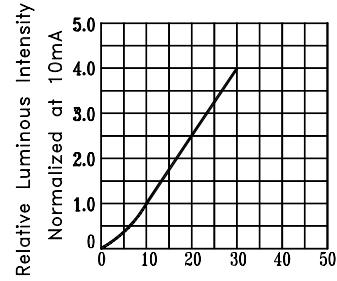
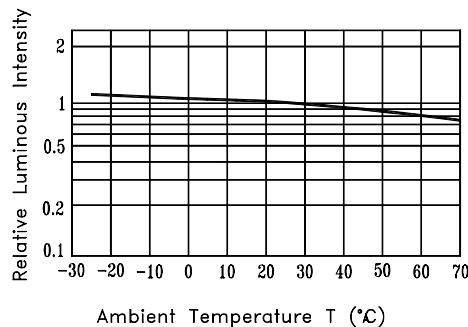
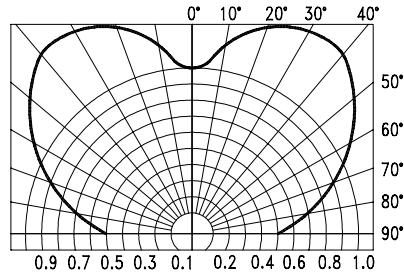
Fig.2 Forward Current vs.  
Forward VoltageFig.3 Forward Current  
Derating CurveFig.4 Relative Luminous Intensity  
vs. Forward CurrentFig.5 Luminous Intensity vs.  
Ambient Temperature

Fig.6 Spatial Distribution

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