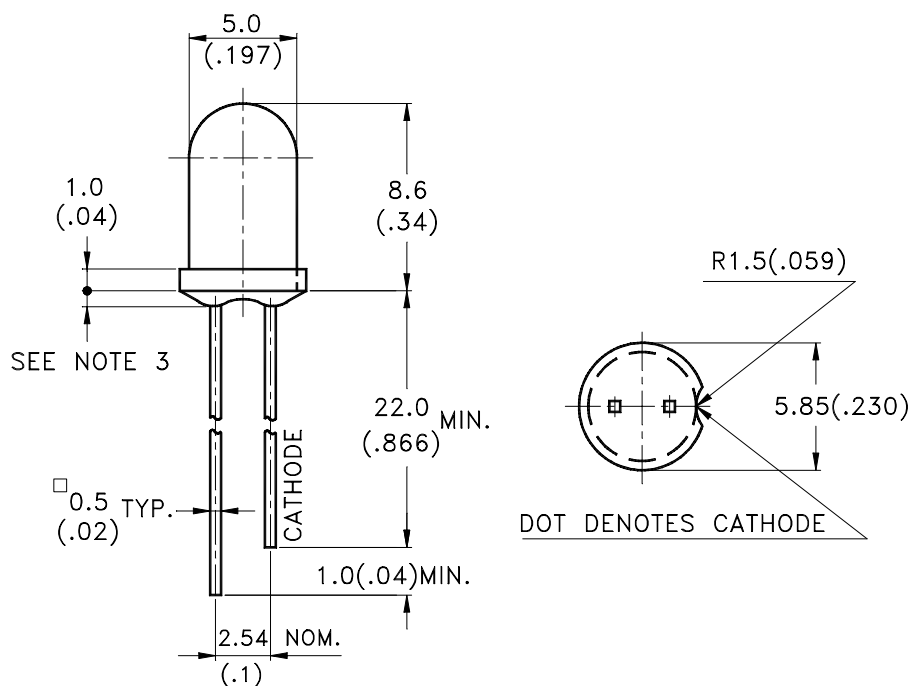


## Features

- \* High efficiency.
- \* Low power consumption.
- \* CMOS/MOS compatible.
- \* TTL compatible.

## Package Dimensions



Part No.	Lens	Source Color
LTL-307YLC	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 1.0mm(.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 Tamb ≤ 90°C	20	mW
Forward Current	7	mA
Forward Surge Current ( 10 μ sec pulse)	500	mA
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> = 2mA Note 1,4
Viewing Angle	2θ <sub>1/2</sub>		50		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ <sub>p</sub>		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ <sub>d</sub>		588		nm	Note 3
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	V <sub>F</sub>		1.8	2.2	V	I <sub>F</sub> = 2mA
Reverse Current	I <sub>R</sub>			10	μA	V <sub>R</sub> = 5V

- 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)

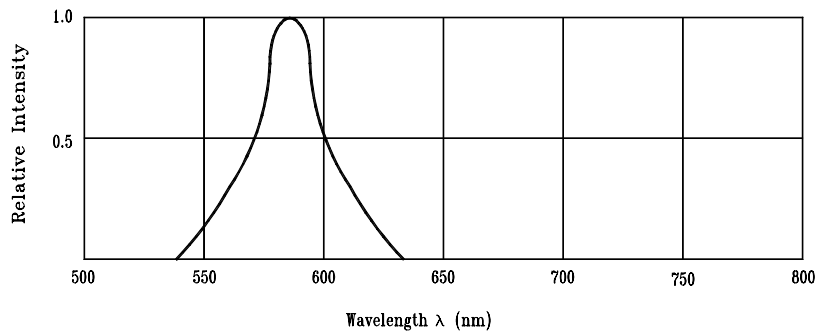


Fig.1 Relative Intensity vs. Wavelength

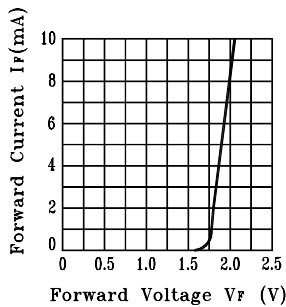


Fig.2 Forward Current vs. Forward Voltage

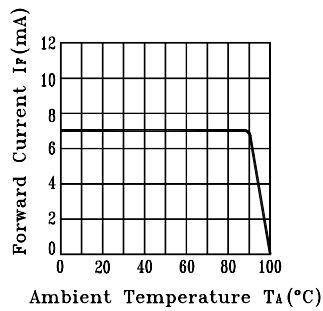


Fig.3 Forward Current Derating Curve

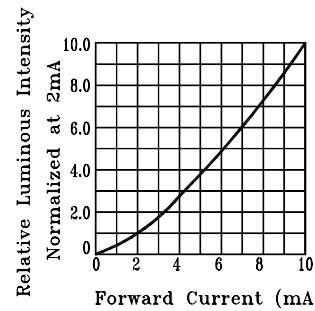


Fig.4 Relative Luminous Intensity vs. Forward Current

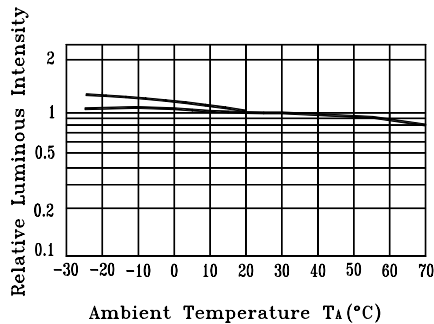


Fig.5 Luminous Intensity vs. Ambient Temperature

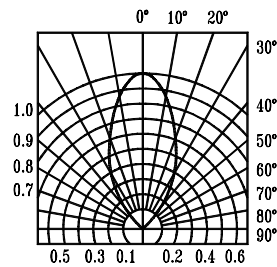


Fig.6 Spatial Distribution