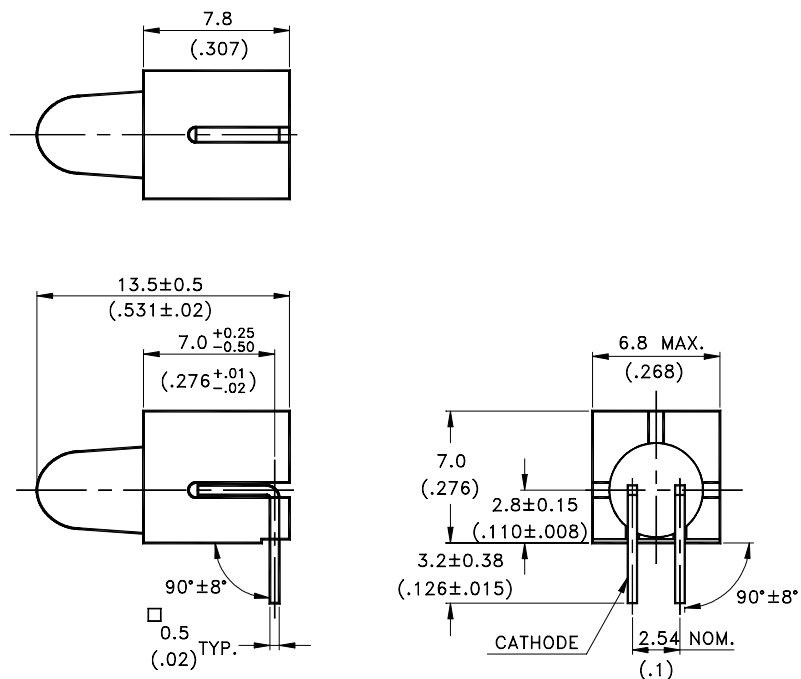


## Features

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

## Package Dimensions



Part No.	Lens	Source
LTL-		Color
337Y	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 holder color is black.
4. The holder raw material is PP.
5. The LED lamp is LTL-337Y.



**L I T E - O N E L E C T R O N I C S , I N C .**

**Property of Lite-On Only**

**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	Part No. LTL-	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	554-11	5.6	19		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 $\theta_{1/2}$	554-11		34		deg	Note 2 (Fig.6)
Peak Emission Wavelength	$\lambda_p$	554-11		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	$\lambda_d$	554-11		588		nm	Note 3
Spectral Line Half-Width	$\Delta \lambda$	554-11		35		nm	
Forward Voltage	V <sub>F</sub>	554-11		2.1	2.6	V	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>	554-11			100	$\mu$ A	V <sub>R</sub> = 5V
Capacitance	C	554-11		15		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 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,  $\lambda_d$  is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4. I<sub>v</sub> needs  $\pm 15\%$  additional for guaranteed limits.

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

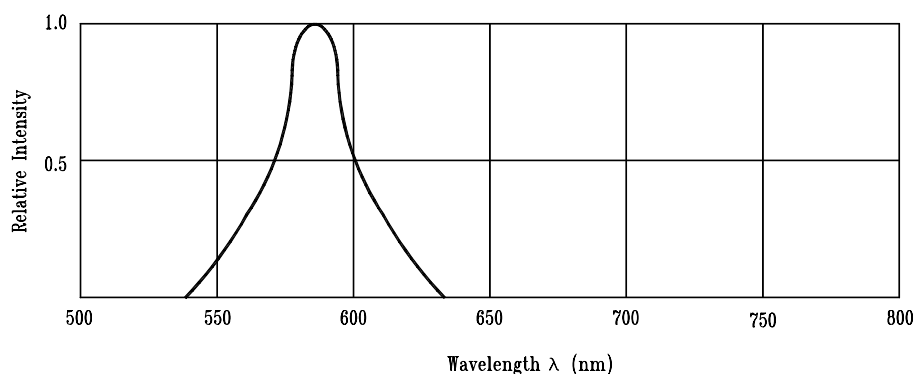


Fig.1 Relative Intensity vs. Wavelength

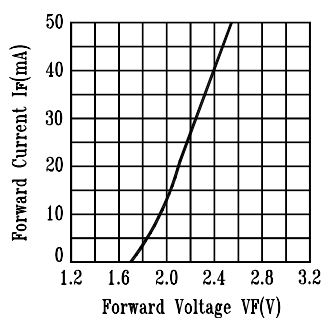


Fig.2 Forward Current vs. Forward Voltage

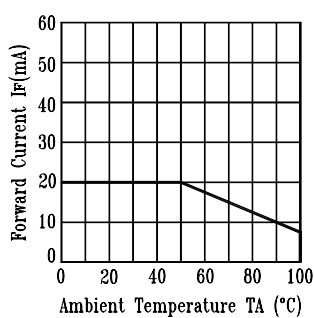


Fig.3 Forward Current Derating Curve

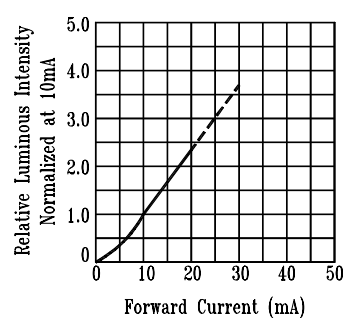


Fig.4 Relative Luminous Intensity vs. Forward Current

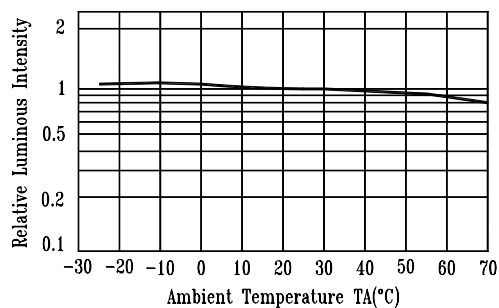


Fig.5 Luminous Intensity vs. Ambient Temperature

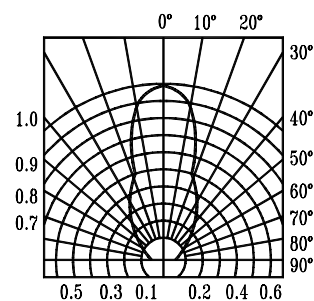


Fig.6 Spatial Distribution