

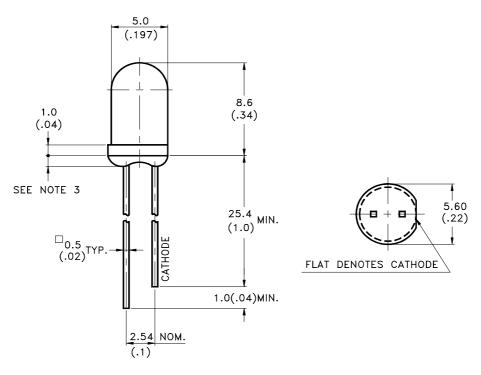
# LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

#### **Features**

- \* High Intensity.
- \* Popular T-1 3/4 diameter Package.
- \* Selected minimun intensities.
- \* General purpose leads.
- \* Reliable and rugged.

#### **Package Dimensions**



Part No.	Lens	Source Color
LTL-4253	Yellow Diffused	Yellow

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  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.

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## 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		

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5.6	19		mcd	$I_F = 10 \text{mA}$ Note 1,4
Viewing Angle	2 \theta 1/2		36		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		585		nm	Measurement  @Peak (Fig.1)
Dominant Wavelength	$\lambda$ d		588		nm	Note 3
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	$V_{F}$		2.1	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	IR			100	$\mu$ A	$V_R = 5V$
Capacitance	С		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.  $\theta_{1/2}$  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. The Iv guarantee should be added  $\pm$  15%.

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### Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

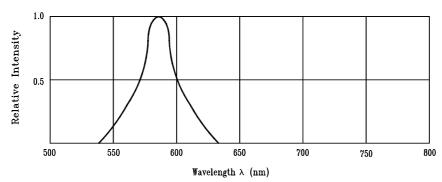
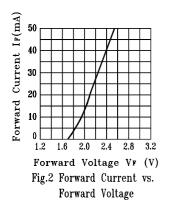
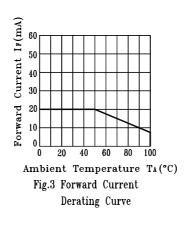
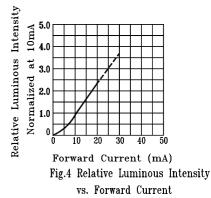
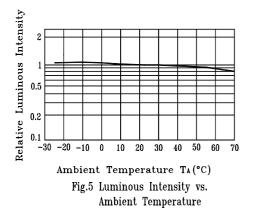


Fig.1 Relative Intensity vs. Wavelength









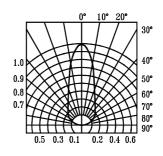


Fig.6 Spatial Distribution

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