

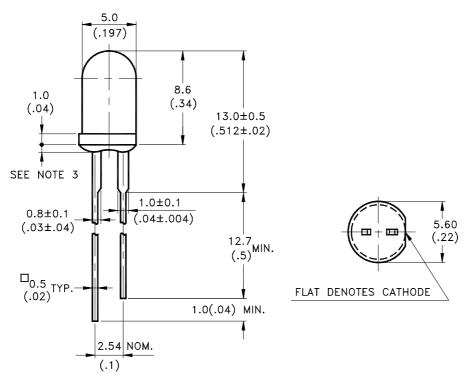
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * High Intensity.
- * Low power consumption.
- * Popular T-1 3/4 diameter Package.
- * Versatile mounting on P.C. board or panel.
- * I.C. Compatible/low current requirements.
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source Color	
LTL-253	Yellow Diffused	Yellow	

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.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	Parameter Maximum Rating		
Power Dissipation	60	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA	
Continuous Forward Current	20		
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	0.7	2.5		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 heta 1/2		54		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		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	$I_F = 20 \text{mA}$
Reverse Current	I _R			100	μΑ	$V_R = 5V$
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, λ_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)

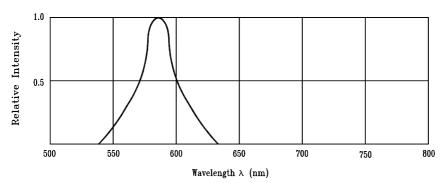
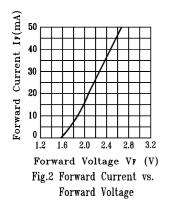
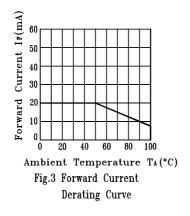
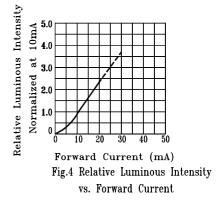
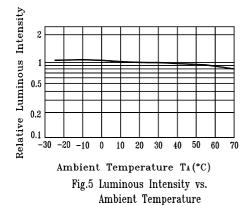


Fig.1 Relative Intensity vs. Wavelength









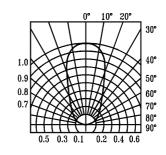


Fig.6 Spatial Distribution

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