

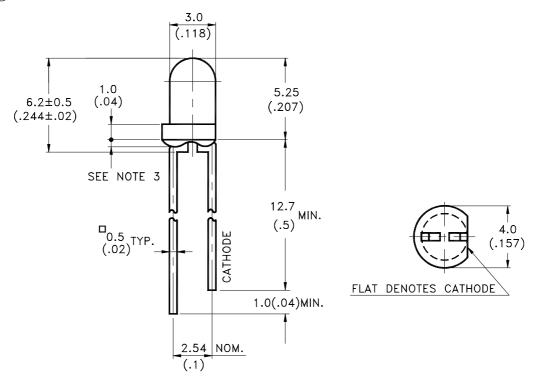
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * High Efficiency.
- * Low power consumption.
- * Versatile mounting on P.C. board or panel.
- * Wide viewing angle.
- * CMOS/MOS and TTL compatible.
- * Long life solid state reliability.

Package Dimensions



Part No.	Lens	Source Color	
LTL-201	Red Diffused	Red	

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℃

Parameter	Maximum Rating	Unit	
Power Dissipation	80	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	200	mA	
Continuous Forward Current	40	mA	
Derating Linear From 50°C	0.5	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	0.4	1.1		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 θ 1/2		76		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		655		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		651		nm	Note 3
Spectral Line Half-Width	Δλ		24		nm	
Forward Voltage	V_{F}		1.7	2.0	V	$I_F = 20 \text{mA}$
Reverse Current	IR			100	μ A	$V_R = 5V$
Capacitance	С		30		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 $\pm 15\%$.

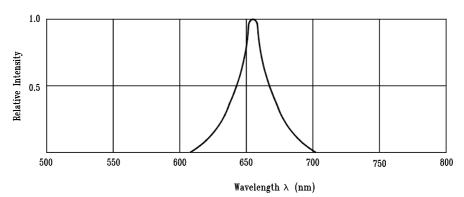
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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



Relative Intensity vs. Wavelength

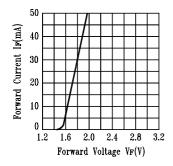


Fig.2 Forward Current vs. Forward Voltage

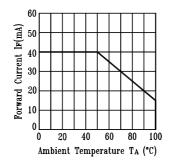


Fig.3 Forward Current Derating Curve

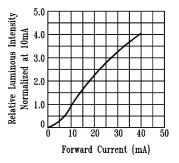


Fig.4 Relative Luminous Intensity vs. Forward Current

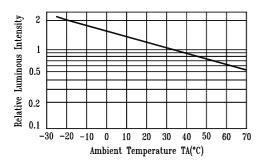


Fig.5 Luminous Intensity vs. Ambient Temperature

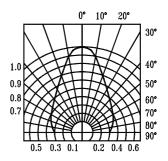


Fig.6 Spatial Distribution

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