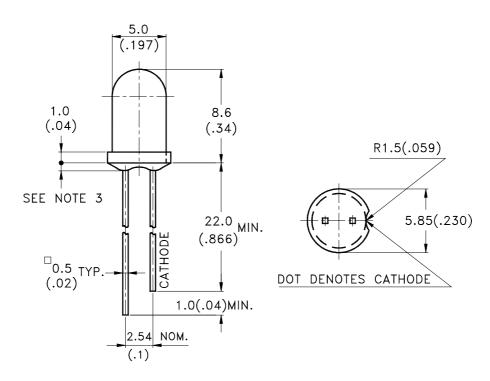
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

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

Package Dimensions



Part No.	Lens	Source Color
LTL-307ELC	Red Diffused	Hi-Eff.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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LITEON LITE-ON ELECTRONICS, INC.

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Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit			
Power Dissipation Tamb ≤ 90°C	20	mW			
Forward Current	7	mA			
Forward Surge Current ($10 \mu \text{ sec pulse}$)	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				

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LITEON LITE-ON ELECTRONICS, INC.

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Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1.1	3.7		mcd	$I_F = 2mA$ Note 1,4
Viewing Angle	2 θ _{1/2}		50		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		635		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ d		623		nm	Note 3
Spectral Line Half-Width	Δλ		40		nm	
Forward Voltage	V_{F}		1.7	2.2	V	$I_F = 2mA$
Reverse Current	I_R			10	μ A	$V_R = 5V$

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. $\theta_{1/2}$ 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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Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

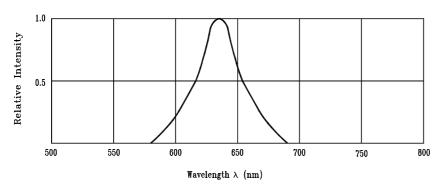
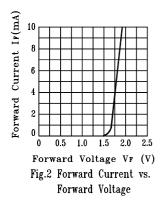
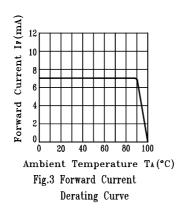
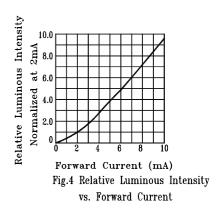
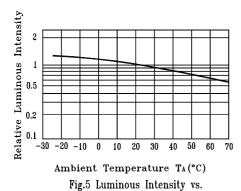


Fig.1 Relative Intensity vs. Wavelength









Ambient Temperature

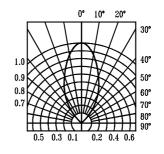


Fig.6 Spatial Distribution

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