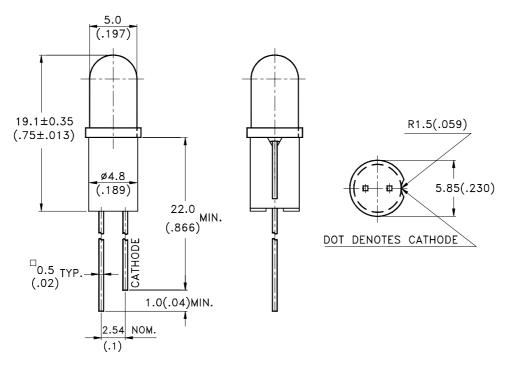
Property of Lite-On Only

Features

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

Package Dimensions



Lamp Part No.	Lens	Source Color
LTL-307EE	Red Transparent	Hi.Eff.Red

NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. The spacer color is black.
- 4. Specifications are subject to change without notice.

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Property of Lite-On Only

Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA	
Continuous Forward Current	30	mA	
Derating Linear From 50°C	0.4	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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Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	29	90		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 θ 1/2		40		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		635		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		623		nm	Note 3
Spectral Line Half-Width	Δλ		40		nm	
Forward Voltage	$ m V_{F}$		2.0	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	I _R			100	μΑ	$V_R = 5V$
Capacitance	С		20		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)

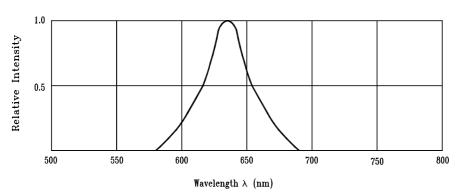
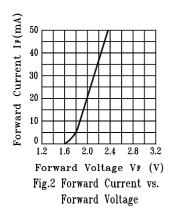
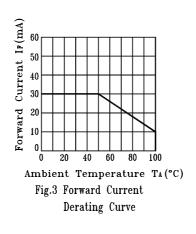
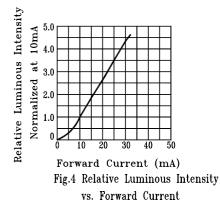
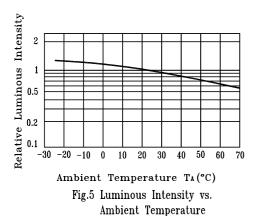


Fig.1 Relative Intensity vs. Wavelength









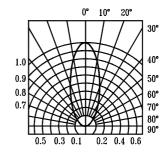


Fig.6 Spatial Distribution

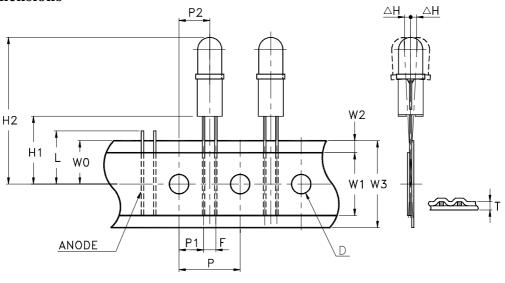
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Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and folding.
- * 2.54mm (0.1") straight lead spacing available.
- * Folding packaging simplifies handling and testing.

Package Dimensions



TAPE FEED DIRECTION

	Symbol	Specification				
Item		Minimum		Maximum		
		mm	inch	mm	inch	
Tape Feed Hole Diameter	D	3.8	0.149	4.2	0.165	
Component Lead Pitch	F	2.3	0.091	3.0	0.118	
Front to Rear Deflection	△Н			2.0	0.078	
Feed Hole to Bottom of Component	H1	17.0	0.669	18.0	0.709	
Feed Hole to Overall Component Height	H2	35.75	1.407	37.45	1.474	
Lead Length After Component Height	L	W0		11.0	0.433	
Feed Hole Pitch	P	12.4	0.488	13.0	0.511	
Lead Location	P1	4.4	0.173	5.8	0.228	
Center of Component Location	P2	5.05	0.198	7.65	0.301	
Total Taped Thickness	T			0.90	0.035	
Feed Hole Location	W0	8.5	0.334	9.75	0.384	
Adhesive Tape Width	W1	12.5	0.492	13.5	0.531	
Adhesive Tape Position	W2	0	0	3.0	0.118	
Tape Width	W3	17.5	0.689	19.0	0.748	

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