

Through Hole Lamp Product Data Sheet

LTL-307EE-012 Spec No.: DS20-2000-134 Effective Date: 04/10/2000 Revision: -



BNS-OD-FC001/A4

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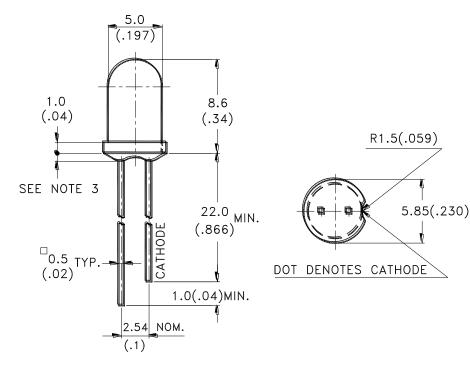


Property of Lite-On Only

Features

- * High Intensity.
- * Popular T-1 3/4 diameter Package.
- * Selected minimum intensities.
- * Wide viewing Angle.
- * General purpose leads.
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source Color
LTL-307EE-012	Red Transparent	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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Property of Lite-On Only

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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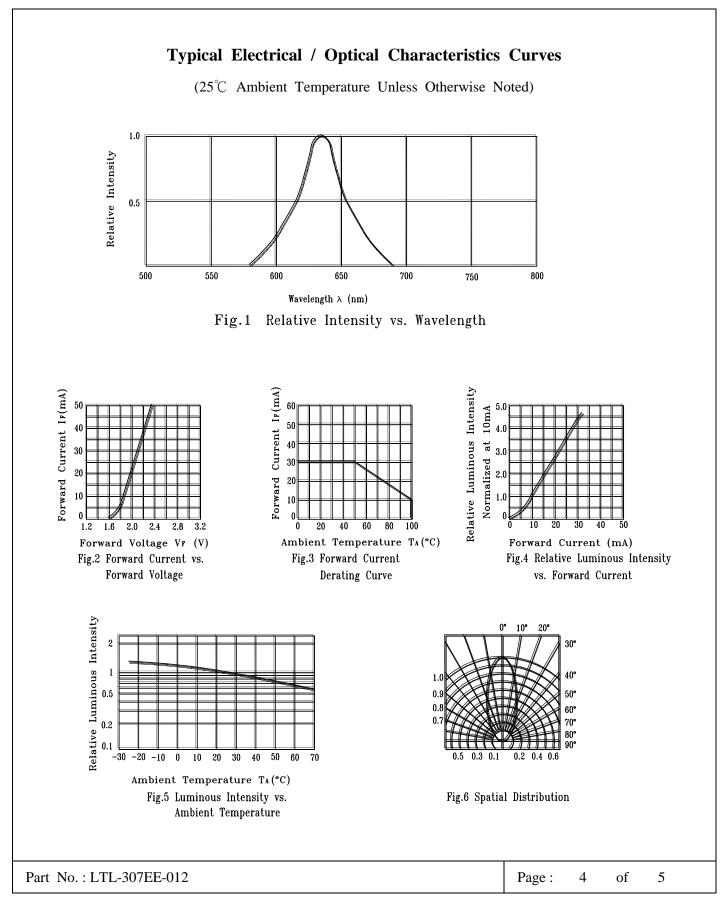
Clectrical / Optical Characteristics at $TA=25^{\circ}C$							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	29	90		mcd	I _F = 10mA Note 1,4	
Viewing Angle	2 heta 1/2		40		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λр		635		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd		623		nm	Note 3	
Spectral Line Half-Width	Δλ		40		nm		
Forward Voltage	VF		2.0	2.6	V	$I_{\rm F} = 20 {\rm mA}$	
Reverse Current	Ir			100	μA	$V_R = 5V$	
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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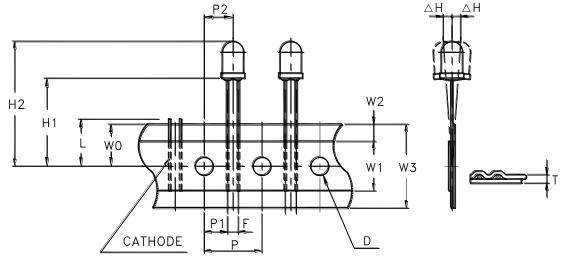


Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and reel.
- * 5mm (0.197") formed lead and 2.54mm (0.1") straight lead spacing available.
- * Reel 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	∆H			2.0	0.078	
Feed Hole to Bottom of Component	H1	21.5	0.846	22.5	0.886	
Feed Hole to Overall Component Height	H2	29.8	1.173	31.4	1.236	
Lead Length After Component Height	L	W0		11.0	0.433	
Feed Hole Pitch	Р	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	Т			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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