

Through Hole Lamp Product Data Sheet

> LTL-307E-002A Spec No.: DS20-2000-034 Effective Date: 03/15/2000

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-307E-002A	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.

Part No. : LTL-307E-002A	Page :	1	of	5	
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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 $+ 100^{\circ}$ C			
Storage Temperature Range	-55°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260° C for 5 Seconds			

Part No. : LTL-307E-002A P	Page :	2
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of

5



Property of Lite-On Only

Electrical / Optical Characteristics at $T_A=25^{\circ}C$						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5.6	19		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 heta 1/2		50		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp		635		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		623		nm	Note 3
Spectral Line Half-Width	Δλ		40		nm	
Forward Voltage	V_{F}		2.0	2.6	v	$I_F = 20 m A$
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 $\pm 15\%$.

5



LITE-ON ELECTRONICS, INC.

Property of Lite-On Only





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.
- * 5mm (0.197") formed lead and 2.54mm (0.1") straight lead spacing available.
- * Folding packaging simplifies handling and testing.

Package Dimensions



	Specification				
Symbol	Minimum		Maximum		
	mm	inch	mm	inch	
D	3.8	0.149	4.2	0.165	
F	2.3	0.091	3.0	0.118	
∆H			2.0	0.078	
H1	17.5	0.689	18.5	0.728	
H2	25.8	1.015	27.4	1.079	
L	V	0	11.0	0.433	
Р	12.4	0.488	13.0	0.511	
P1	4.4	0.173	5.8	0.228	
P2	5.05	0.198	7.65	0.301	
Т			0.90	0.035	
W0	8.5	0.334	9.75	0.384	
W1	12.5	0.492	13.5	0.531	
W2	0	0	3.0	0.118	
W3	17.5	0.689	19.0	0.748	
		D	5 6	5	
	D F △H H1 H2 L P P1 P2 T W0 W1 W2	mm D 3.8 F 2.3 △H H1 17.5 H2 25.8 L W P 12.4 P1 4.4 P2 5.05 T W0 8.5 W1 12.5 W2 0	Symbol Minimum mm inch D 3.8 0.149 F 2.3 0.091 $\triangle H$ H1 17.5 0.689 H2 25.8 1.015 L W0 P 12.4 0.488 P1 4.4 0.173 P2 5.05 0.198 T W0 8.5 0.334 W1 12.5 0.492 W2 0 0 W3 17.5 0.689	Symbol Minimum Maximum mm inch mm D 3.8 0.149 4.2 F 2.3 0.091 3.0 $\triangle H$ 2.0 H1 17.5 0.689 18.5 H2 25.8 1.015 27.4 L W0 11.0 P 12.4 0.488 13.0 P1 4.4 0.173 5.8 P2 5.05 0.198 7.65 T 0.90 W0 8.5 0.334 9.75 W1 12.5 0.492 13.5 W2 0 0 3.0	