



LTL-307E-002A Spec No.: DS20-2000-034

Effective Date: 03/15/2000 Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

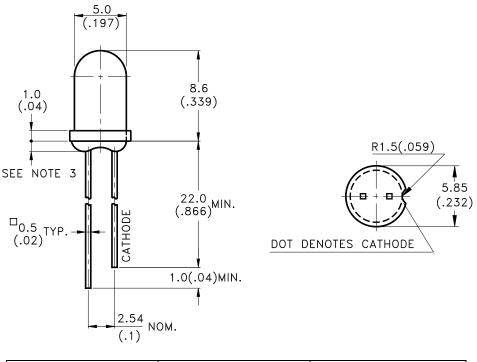


Property of Lite-On Only

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	
-------------------------	--------	---	----	---	--



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/℃			
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				

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

of

5



Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°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	\mathbf{V}_{F}		2.0	2.6	v	$I_F = 20 mA$
Reverse Current	IR			100	μA	$V_R = 5V$
Capacitance	С		20		pF	$V_F = 0$, $f = 1MHz$

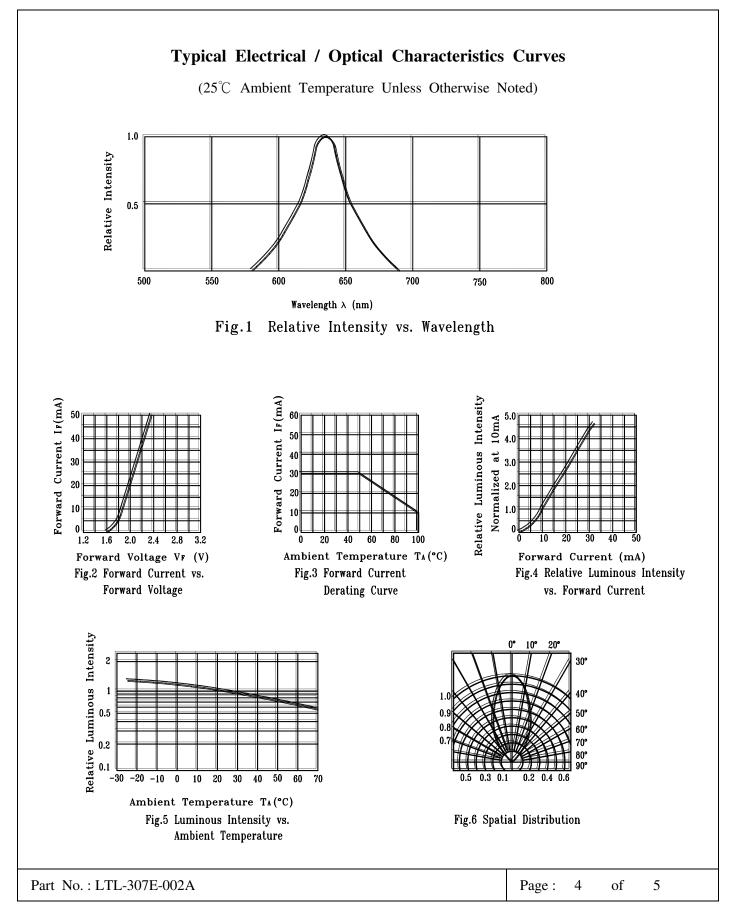
- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve.
 - 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
 - 3. The dominant 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 $\pm 15\%$.

5



LITE-ON ELECTRONICS, INC.

Property of Lite-On Only



BNS-OD-C131/A4

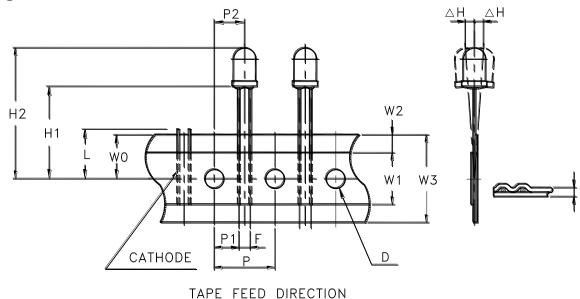


Property of Lite-On Only

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				
Item	Symbol	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	17.5	0.689	18.5	0.728	
Feed Hole to Overall Component Height	H2	25.8	1.015	27.4	1.079	
Lead Length After Component Height	L	V	0	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	
art No. : LTL-307E-002A			Page :	5 of	5	