



Spec No.: DS-20-99-0135Effective Date: 07/04/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

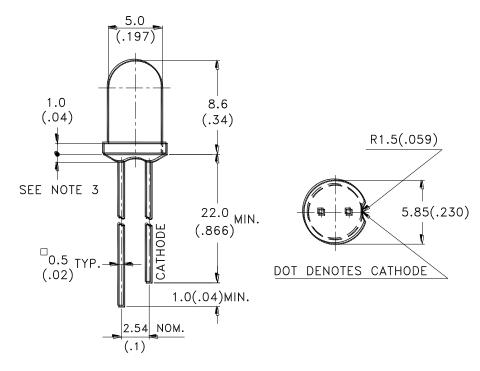


Property of Lite-On Only

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-011A	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.



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	5.6	19		mcd	I _F = 10mA 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	λd		623		nm	Note 3
Spectral Line Half-Width	Δλ		40		nm	
Forward Voltage	$ m V_F$		2.0	2.6	V	I _F = 20mA
Reverse Current	I_R			100	μ A	$V_R = 5V$
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)

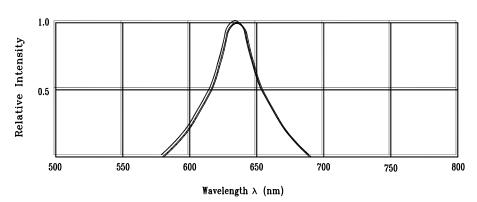
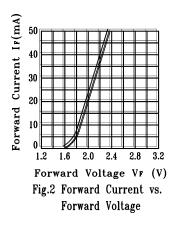
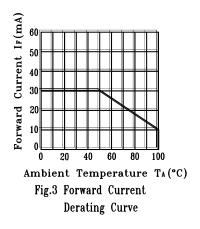
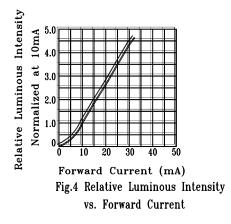


Fig.1 Relative Intensity vs. Wavelength







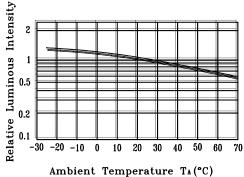


Fig.5 Luminous Intensity vs.
Ambient Temperature

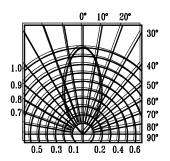


Fig.6 Spatial Distribution

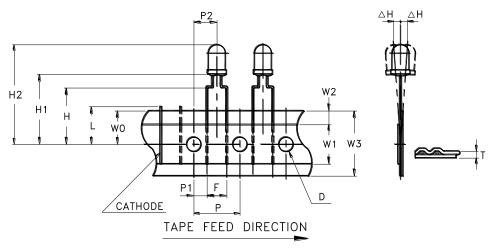
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Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and folding.
- * 5mm (0.197") formed lead spacing available.
- * Folding packaging simplifies handling and testing.

Package Dimensions



		Specification					
Item	Symbol	Min	imum	Maximum			
		mm	inch	mm	inch		
Tape Feed Hole Diameter	D	3.8	0.149	4.2	0.165		
Component Lead Pitch	F	4.8	0.188	5.8	0.228		
Front to Rear Deflection	$\triangle H$	-		2.0	0.078		
Height of Seating Plane	Н	15.5	0.610	16.5	0.649		
Feed Hole to Bottom of Component	H1	19.0	0.748	21.0	0.827		
Feed Hole to Overall Component Height	H2	27.3	1.074	29.9	1.177		
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	3.15	0.124	4.55	0.179		
Center of Component Location	P2	5.05	0.198	7.65	0.301		
Total Tape 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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