LITEON

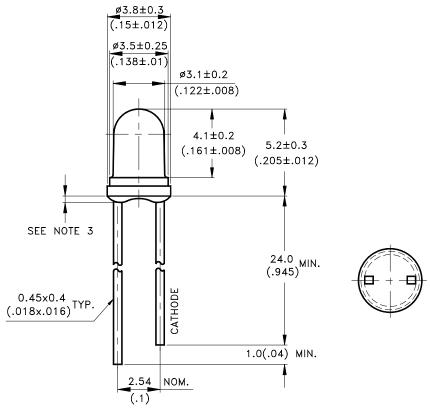
LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Low power consumption.
- * High efficiency.
- * Versatile mounting on P.C. Board or panel.
- * I.C. Compatible/low current requirement.
- * 3.1 mm diameter package.

Package Dimensions



Part No.	Lens	Source Color
LTL-1CHG-031A	Green Diffused	Green

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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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℃	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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LITE-ON ELECTRONICS, INC.

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Electrical Optical Characteristics at TA=25°C

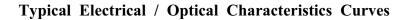
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	3.7	12.6		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 heta 1/2		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ_d		569		nm	Note 3
Spectral Line Half-Width	Δλ		30		nm	
Forward Voltage	V_{F}		2.1	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	I_R			100	μΑ	$V_R = 5V$
Capacitance	С		35		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.

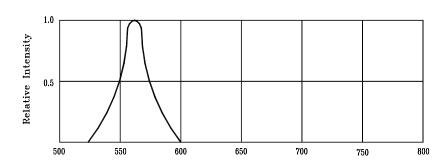
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. The Iv guarantee should be added $\pm 15\%$.

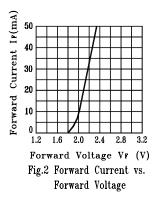
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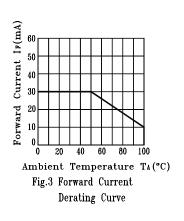
Property of Lite-On Only

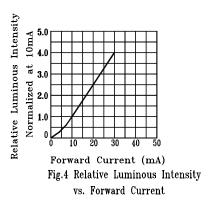


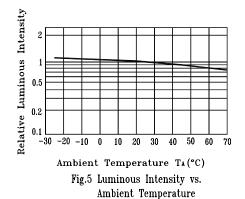
(25°C Ambient Temperature Unless Otherwise Noted)











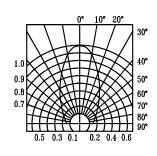


Fig.6 Spatial Distribution

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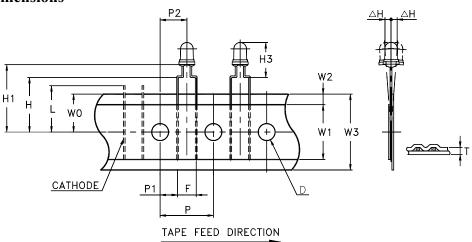
LITEON ELECTRONICS, INC.

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	4.8	0.188	5.8	0.228	
Front to Rear Deflection	$\triangle H$		1	2.0	0.078	
Height of Seating Plane	Н	15.5	0.610	16.5	0.649	
Feed Hole to Bottom of Component	H1	25.0	0.984	27.0	1.063	
Top of Component to Seating Plane	НЗ	14.7	0.578	15.7	0.618	
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 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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