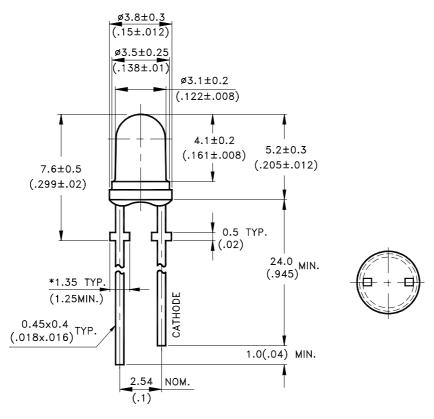


Property of Lite-On Only

Features

- * Low power consumption.
- * High efficiency.
- * Versatile mounting on P.C. board or panel.
- * I.C. compatible/low current requirements.
- * 3.1 mm diameter package.

Package Dimensions



Part No.	Lens	Source Color			
LTL1CHUBJS-UA White Diffuse		Blue			

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

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Property of Lite-On Only

Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit		
Power Dissipation	135	MW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	70	MA		
Continuous Forward Current	30			
Derating Linear From 30°C	0.5	mA/°C		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold(HBM) ^{Note A}	1000	V		
Operating Temperature Range	-20°C to + 80°C			
Storage Temperature Range	-30°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds			

Note A:

HBM: Human Body Model. Seller gives no other assurances regarding the ability of Products to withstand ESD.

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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	10	25		mcd	I _F = 20mA Note 1,5
Viewing Angle	2 heta 1/2		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		428		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		466		nm	Note 3
Spectral Line Half-Width	Δλ		65		nm	
Forward Voltage	V_{F}		3.8	4.5	V	$I_F = 20Ma$
Reverse Current	I_R			100	μ A	$V_R = 5V$

NOTE: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE 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. Iv classification code is marked on each packing bag.
- 5. The Iv guarantee should be added $\pm 15\%$ tolerance.
- 6. Precautions in handling:
 - When soldering, leave 2mm of minimum clearance from the resin to the soldering point.
 - Dipping the resin to solder must be avoided.
 - Correcting the soldered position after soldering must be avoided.
 - In soldering, do not apply any stress to the lead frame particularly when heated.
 - When forming a lead, make sure not to apply any stress inside the resin.
 - Lead forming must be done before soldering.
 - It is necessary to cut the lead frame at normal temperature.
- 7. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

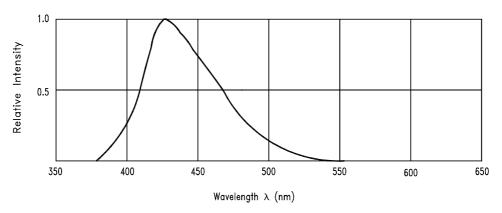
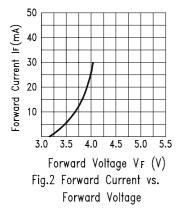
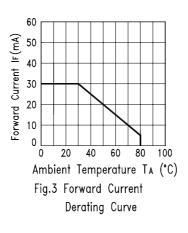


Fig.1 Relative Intensity vs. Wavelength





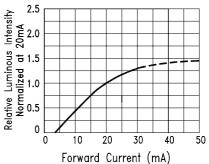


Fig.4 Relative Luminous Intensity vs. Forward Current

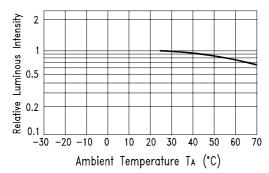


Fig.5 Luminous Intensity vs. Ambient Temperature

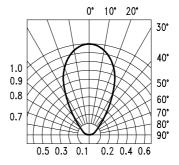


Fig.6 Spatial Distribution

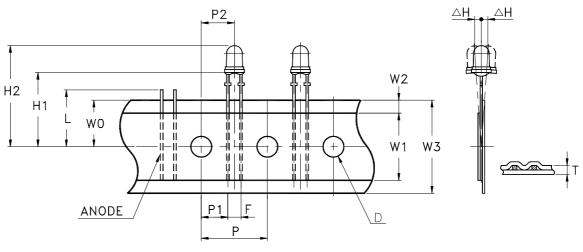
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Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and folding.
- * 2.54mm (0.1") straight lead spacing available.
- * Folding 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	ΔΗ			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	26.4	1.039	28.0	1.102	
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	4.4	0.173	5.8	0.228	
Center of Component Location	P2	5.05	0.198	7.65	0.301	
Total Tape Thickness	Т			0.90	0.035	
Feed Hole Location	W0	8.5	0.334	9.75	0.384	
Adhesive Tape Width	W1	14.5	0.571	15.5	0.610	
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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