

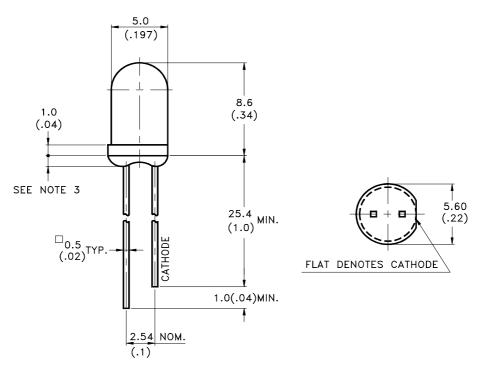
# LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

#### **Features**

- \* High Intensity.
- \* Popular T-1 3/4 diameter Package.
- \* Selected minimun intensities.
- \* General purpose leads.
- \* Reliable and rugged.

#### **Package Dimensions**



Part No.	Lens	Source Color
LTL-4254-002	Yellow Transparent	Yellow

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  0.25mm(.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°C

Parameter	Maximum Rating	Unit	
Power Dissipation	60	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA	
Continuous Forward Current	20	mA	
Derating Linear From 50°C	0.25	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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### Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	29	90		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 \theta 1/2		16		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		585		nm	Measurement  @Peak (Fig.1)
Dominant Wavelength	$\lambda$ d		588		nm	Note 3
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	$V_{\mathrm{F}}$		2.1	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	$I_R$			100	$\mu$ A	$V_R = 5V$
Capacitance	С		15		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,  $\lambda_d$  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)

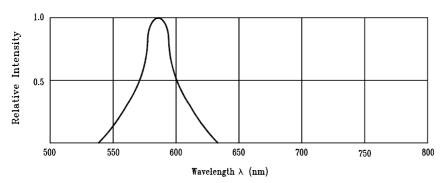
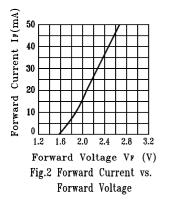
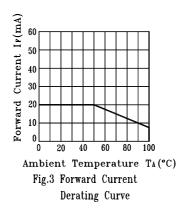
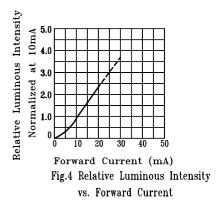
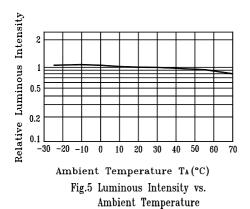


Fig.1 Relative Intensity vs. Wavelength









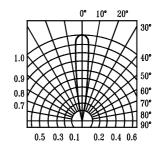


Fig.6 Spatial Distribution

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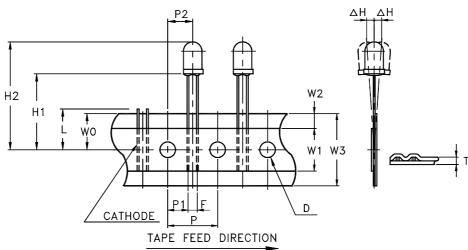
# LITEON LITE-ON ELECTRONICS, INC.

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#### **Features**

- \* Compatible with radial lead automatic insertion equipment.
- \* Most radial lead plastic lead lamps available packaged in tape and reel.
- \* 2.54mm (0.1") straight lead spacing available.
- \* Reel packaging simplifies handling and testing.

### **Package Dimensions**



	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	ΔН			2.0	0.078	
Feed Hole to Bottom of Component	H1	17.5	0.688	18.5	0.728	
Feed Hole to Overall Component Height	H2	25.9	1.020	27.3	1.074	
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	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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