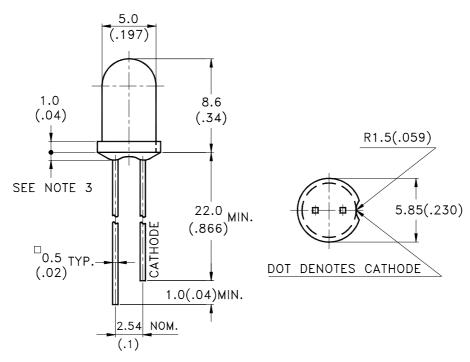
# LITEON LITE-ON ELECTRONICS, INC.

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-307YA-112A	Yellow Diffused	Yellow	

### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ 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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## LITEON ELECTRONICS, INC.

Property of Lite-On Only

### Absolute Maximum Ratings at TA=25℃

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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## LITEON ELECTRONICS, INC.

Property of Lite-On Only

### Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	8.7	29		mcd	$I_F = 10 \text{mA}$ Note 1,4
Viewing Angle	2 heta 1/2		50		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)

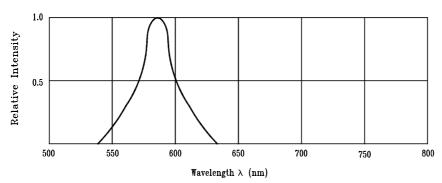
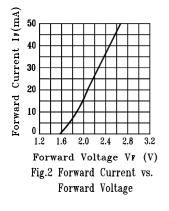
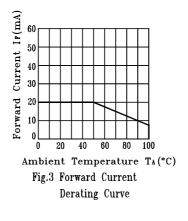
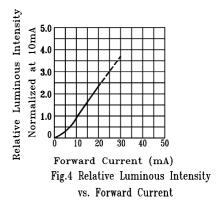
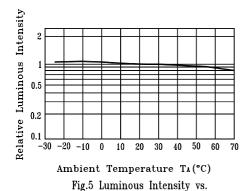


Fig.1 Relative Intensity vs. Wavelength









Ambient Temperature

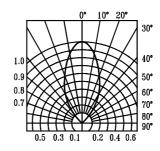


Fig.6 Spatial Distribution

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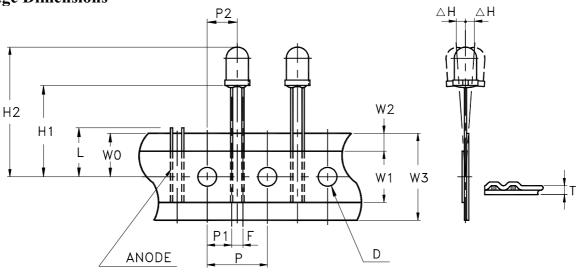
# LITEON ELECTRONICS, INC.

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.
- \* 2.54mm (0.1") straight lead spacing available.
- \* Folding packaging simplifies handling and testing.

### **Package Dimensions**



TAPE FEED DIRECTION

		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	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	29.9	1.177	31.4	1.236
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 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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