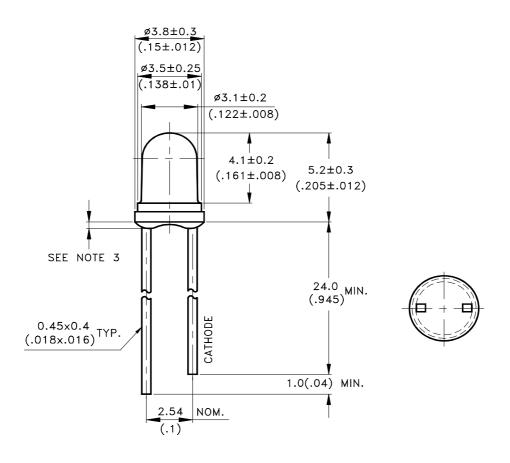
Property of Lite-On Only

### **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-1CHY-012A	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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### 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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### Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	2.5	8.7		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 heta 1/2		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		588		nm	Note 3
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	$V_{\mathrm{F}}$		2.1	2.6	V	$I_F = 20 mA$
Reverse Current	I <sub>R</sub>			100	μΑ	$V_R = 5V$
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)

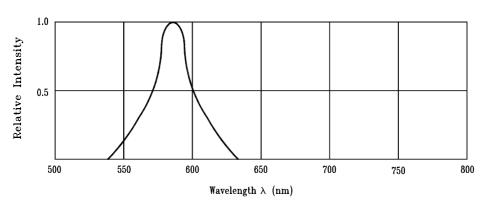
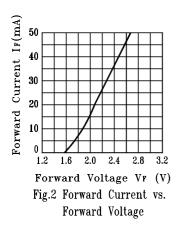
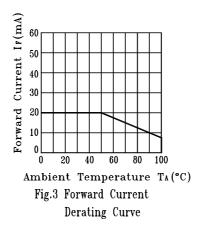
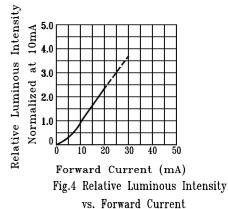
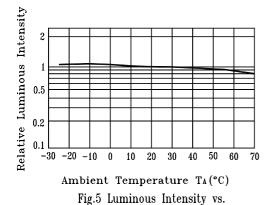


Fig.1 Relative Intensity vs. Wavelength









Ambient Temperature

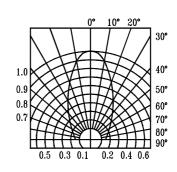


Fig.6 Spatial Distribution

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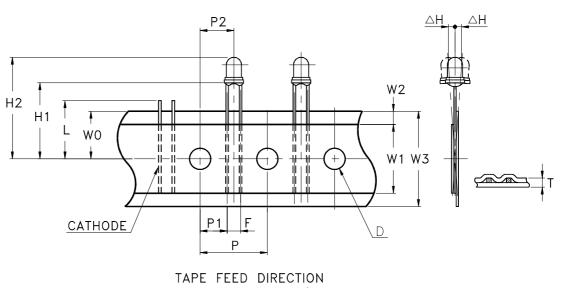
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Property of Lite-On Only

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

### **Package Dimensions**



Item		Specification			
	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	△Н			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	V	V0	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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