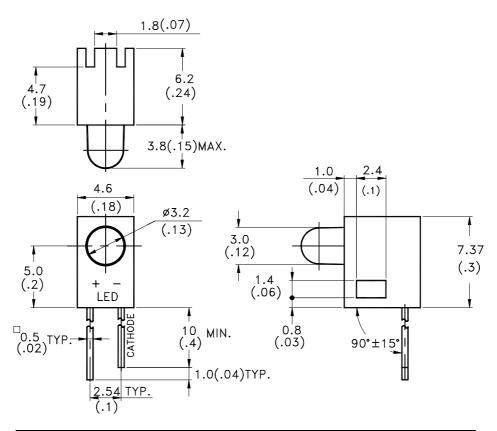
LITEON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Designed to allow for high density packaging.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions



Part No.	Source				
LTL-	Lens	Color			
4251N	Yellow Diffused	Yellow			

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. The holder color is black.
- 4. The holder raw material is PC.
- 5. The LED lamp is LTL-4251N.

Part No.: LTL-155YHA	Page:	1	of	4
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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			

Part No.: LTL-155YHA of Page:



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Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Part No. LTL-	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	155YHA	1.7	5.6		mcd	$I_F = 10 \text{mA}$ Note 1,4
Viewing Angle	2 \theta 1/2	155YHA		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	155ҮНА		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	155YHA		588		nm	Note 3
Spectral Line Half-Width	Δλ	155YHA		35		nm	
Forward Voltage	VF	155YHA		2.1	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	IR	155YHA			100	μ A	$V_R = 5V$
Capacitance	С	155YHA		15		рF	$V_F = 0$, $f = 1MHz$

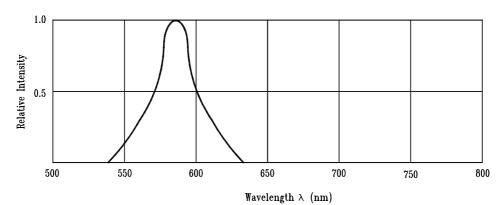
Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

- 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 needs $\pm 15\%$ additionary for guaranteed limits.

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Part No.: LTL-155YHA	Page:	3	ot	4

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



Relative Intensity vs. Wavelength

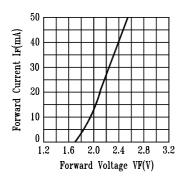


Fig.2 Forward Current vs. Forward Voltage

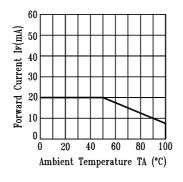


Fig.3 Forward Current Derating Curve

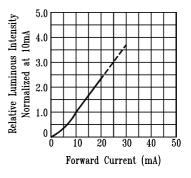


Fig.4 Relative Luminous Intensity vs. Forward Current

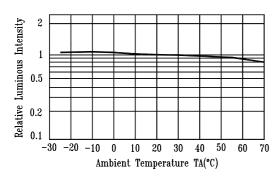


Fig.5 Luminous Intensity vs. Ambient Temperature

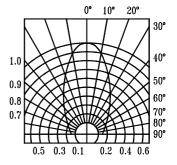


Fig.6 Spatial Distribution

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