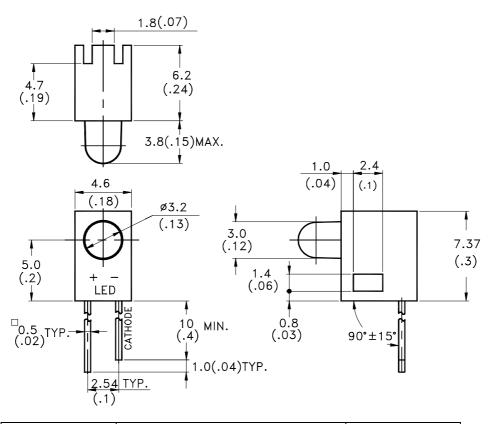
# LITEON ELECTRONICS, INC.

#### 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
4231N	Green Diffused	Green

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ mm(.010") unless otherwise noted.
- 3. The holder color is black.
- 4. The holder raw material is PC.
- 5. The LED lamp is LTL-4231N.

Part No.: LTL-155GHA	Page:	1	of	4
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## LITEON ELECTRONICS, INC.

#### Property of Lite-On Only

#### Absolute Maximum Ratings at Ta=25℃

Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA	
Continuous Forward Current	30	mA	
Derating Linear From 50°C	0.4	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-155GHA of Page:



### LITE-ON ELECTRONICS, INC.

#### Property of Lite-On Only

#### Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Part No. LTL-	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	155GHA	3.7	12.6		mcd	$I_F = 10 \text{mA}$ Note 1,4
Viewing Angle	2 \theta 1/2	155GHA		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	155GHA		565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	155GHA		569		nm	Note 3
Spectral Line Half-Width	Δλ	155GHA		30		nm	
Forward Voltage	VF	155GHA		2.1	2.6	V	$I_F = 20 mA$
Reverse Current	$I_R$	155GHA			100	$\mu$ A	$V_R = 5V$
Capacitance	С	155GHA		35		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,  $\lambda$  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-155GHA	Page:	3	of	4

Property of Lite-On Only

#### Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

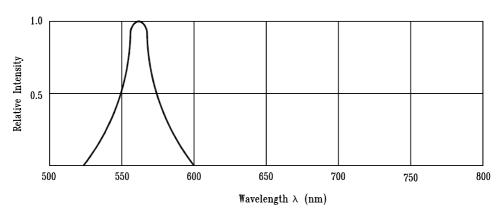


Fig.1 Relative Intensity vs. Wavelength

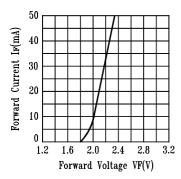


Fig.2 Forward Current vs. Forward Voltage

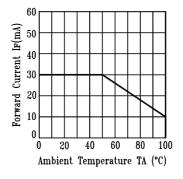


Fig.3 Forward Current Derating Curve

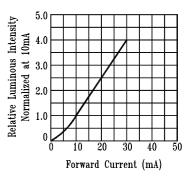


Fig.4 Relative Luminous Intensity vs. Forward Current

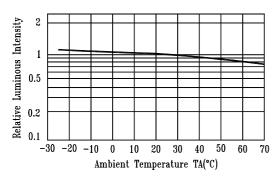


Fig.5 Luminous Intensity vs. Ambient Temperature

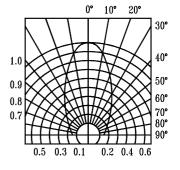


Fig.6 Spatial Distribution

Part No.: LTL-155GHA Page: of 4