

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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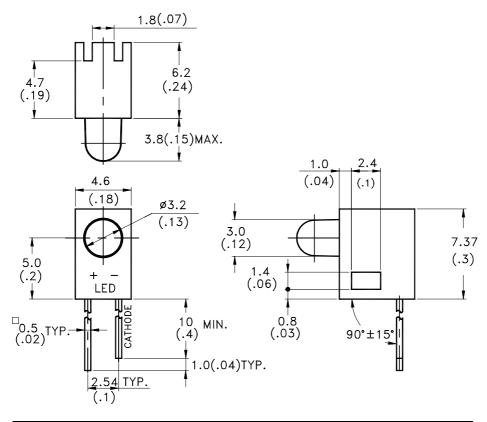
LITEON ELECTRONICS, INC.

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			
4221N	Red Diffused	Hi.Eff.Red			

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-4221N.

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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-155EHA 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	155EHA	2.5	8.7		mcd	$I_F = 10 \text{mA}$ Note 1,4	
Viewing Angle	2 \theta 1/2	155EHA		60		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λp	155EHA		635		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	155EHA		623		nm	Note 3	
Spectral Line Half-Width	Δλ	155EHA		40		nm		
Forward Voltage	VF	155EHA		2.0	2.6	V	$I_F = 20 mA$	
Reverse Current	I_R	155EHA			100	μ A	$V_R = 5V$	
Capacitance	С	155EHA		20		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.

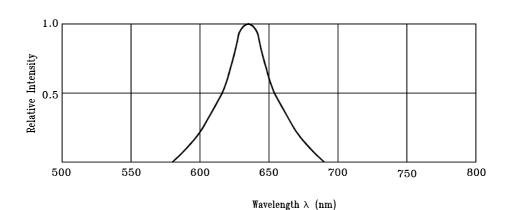
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Iv needs $\pm 15\%$ additionary for guaranteed limits.

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



Relative Intensity vs. Wavelength

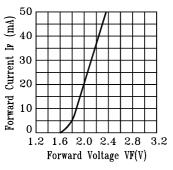


Fig.2 Forward Current vs. Forward Voltage

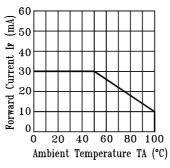


Fig.3 Forward Current Derating Curve

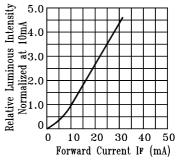


Fig.4 Relative Luminous Intensity vs. Forward Current

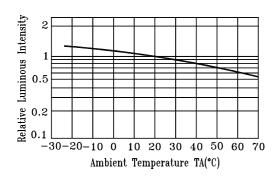


Fig.5 Luminous Intensity vs. Ambient Temperature

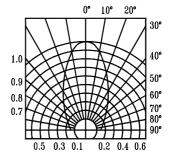


Fig.6 Spatial Distribution

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