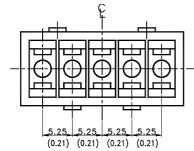
LITEON LITE-ON ELECTRONICS, INC.

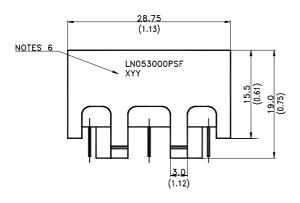
Property of Lite-On Only

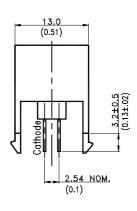
Features

- * Designed for ease in circuit board assembly.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions







Part No.	Lana	Source
LTL-	Lens	Color
81HGECP	Green Transparent	Green

NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. The holder color is white.
- 4. The holder raw material is ABS.
- 5. The LED lamps are LTL-81HGECP.
- 6. XYY: Date Code.

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Part No.: LTL-81HGECH64	Page:	1	of	4

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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	e -55°C to + 100°C		
Lead Soldering Temperature [1.6mm(.063") From Body] 260°C for 5 Second			

Page: 2 Part No.: LTL-81HGECH64 of 4



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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	81HGECH64	3.7	12.6		mcd	$I_F = 20 \text{mA}$ Note 1,4	
Viewing Angle	2 θ 1/2	81HGECH64		130		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λρ	81HGECH64		565		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	81HGECH64		569		nm	Note 3	
Spectral Line Half-Width	Δλ	81HGECH64		30		nm		
Forward Voltage	VF	81HGECH64		2.1	2.6	V	$I_F = 20 \text{mA}$	
Reverse Current	IR	81HGECH64			100	μΑ	$V_R = 5V$	
Capacitance	С	81HGECH64		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, 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.

Part No.: LTL-81HGECH64	Page:	3	of	4

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

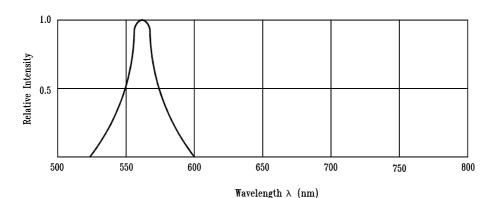


Fig.1 Relative Intensity vs. Wavelength

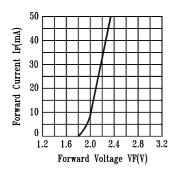


Fig.2 Forward Current vs.
Forward Voltage

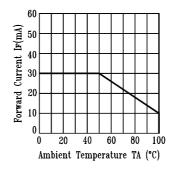


Fig.3 Forward Current
Derating Curve

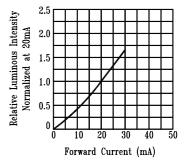


Fig.4 Relative Luminous Intensity vs. Forward Current

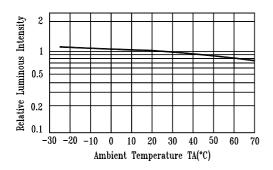


Fig.5 Luminous Intensity vs.
Ambient Temperature

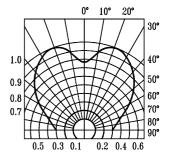


Fig.6 Spatial Distribution

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