

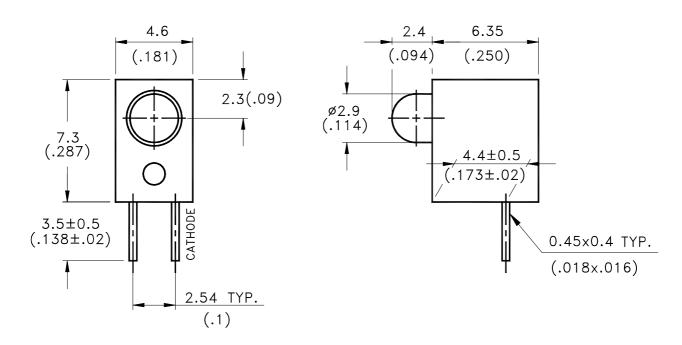
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

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

Package Dimensions



Part No.		Source
LTL-	Lens	Color
4281N	Amber Diffused	Amber

NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm(.010") unless otherwise noted.
- 3. The holder color is black.
- 4. The holder raw material is PC.
- 5. The LED lamp is LTL-4281N.



LITEON ELECTRONICS, INC.

Property of Lite-On Only

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-4281NHBP 4 Page: of



LITEON 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	4281NHBP	5.6	19		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 θ 1/2	4281NHBP		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λρ	4281NHBP		610		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	4281NHBP		602		nm	Note 3
Spectral Line Half-Width	Δλ	4281NHBP		35		nm	
Forward Voltage	VF	4281NHBP		2.1	2.6	V	I _F = 20mA
Reverse Current	I_R	4281NHBP			100	μ A	$V_R = 5V$
Capacitance	С	4281NHBP		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.

LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

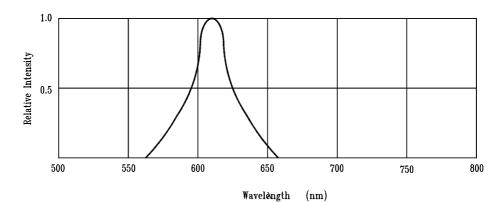


Fig.1 Relative Intensity vs. Wavelength

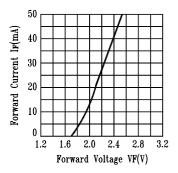


Fig.2 Forward Current vs. Forward Voltage

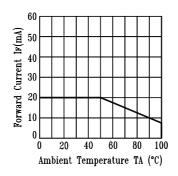


Fig.3 Forward Current
Derating Curve

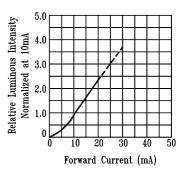


Fig.4 Relative Luminous Intensity vs. Forward Current

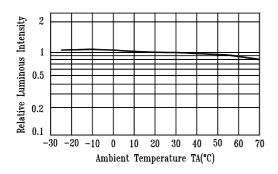


Fig.5 Luminous Intensity vs.
Ambient Temperature

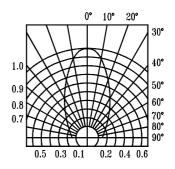


Fig.6 Spatial Distribution

Part No.: LTL-4281NHBP Page: 4 of 4