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.	T	Source
LTL-	Lens	Color
4211N	Red Diffused	Bright 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.
- 5. The LED lamp is LTL-4211N.

Part No.: LTL-4211NHBP

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Parameter	Maximum Rating	Unit		
Power Dissipation	40	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA		
Continuous Forward Current	15	mA		
Derating Linear From 50°C	0.2	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-55°C to + 100°C			
Storage Temperature Range	-55° C to $+100^{\circ}$ C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260° C for 5 Seconds			

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Parameter	Symbol	Part No. LTL-	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	4211NHBP	1.3	4.4		mcd	$I_F = 10 mA$ Note 1,4
Viewing Angle	2 <i>θ</i> 1/2	4211NHBP		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λρ	4211NHBP		697		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	4211NHBP		657		nm	Note 3
Spectral Line Half-Width	Δλ	4211NHBP		90		nm	
Forward Voltage	VF	4211NHBP		2.1	2.6	V	$I_F = 20 m A$
Reverse Current	Ir	4211NHBP			100	μ A	$V_R = 5V$
Capacitance	С	4211NHBP		55		рF	$V_F = 0$, $f = 1MH_Z$

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, λd 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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