

Through Hole Lamp Product Data Sheet

> LTL-4213 Spec No.: DS-20-92-0232 Effective Date: 07/30/2000 Revision: -



BNS-OD-FC001/A4

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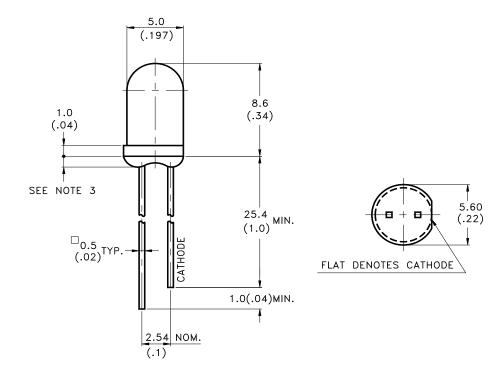
# LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

#### **Features**

- \* High Intensity.
- \* Popular T-1 3/4 diameter Package.
- \* Selected minimun intensities.
- \* General purpose leads.
- \* Reliable and rugged.

### **Package Dimensions**



Part No.	Lens	Source Color		
LTL-4213	Red Diffused	Bright Red		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$  mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Part No.: LTL-4213 Page : 1 of 4



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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°C		
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds		

Part No.: LTL-4213	Page :	2	of
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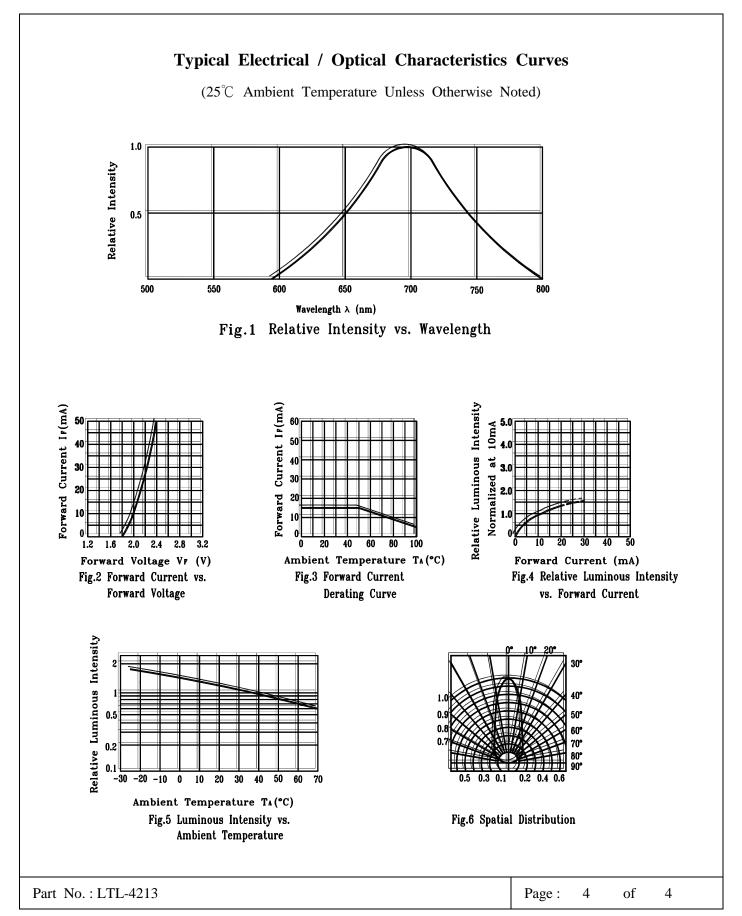
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1.1	3.7		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 heta 1/2		36		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ Ρ		697		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	$\lambda$ d		657		nm	Note 3
Spectral Line Half-Width	Δλ		90		nm	
Forward Voltage	VF		2.1	2.8	V	$I_F = 20 m A$
Reverse Current	IR			100	μA	$V_R = 5V$
Capacitance	С		55		pF	$V_F = 0$ , $f = 1MHz$

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) 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. The Iv guarantee should be added  $\pm 15\%$  .



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BNS-OD-C131/A4

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