



Spec No.: DS-20-94-0087 Effective Date: 06/24/2000 Revision: -



BNS-OD-FC001/A4

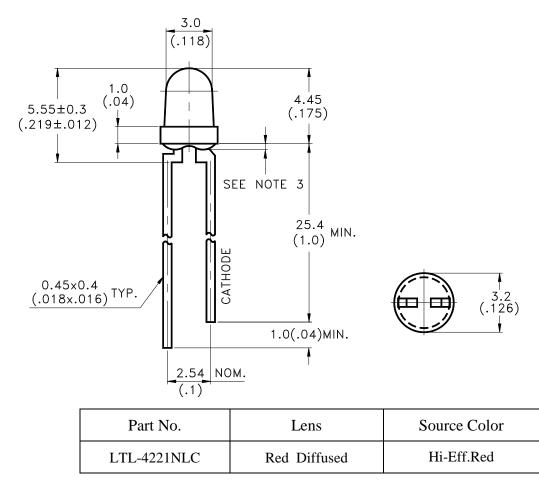
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Property of Lite-On Only

Features

- * High efficiency.
- * Low power consumption.
- * CMOS/MOS compatible.
- * TTL compatible.
- * Wide viewing angle.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 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.



Property of Lite-On Only

Parameter	Maximum Rating	Unit			
Power Dissipation Tamb $\leq 90^{\circ}$ C	20	mW			
Forward Current	7	mA			
Forward Surge Current (10μ sec pulse)	500	mA			
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				

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Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°C									
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition			
Luminous Intensity	Iv	0.7	2.5		mcd	$I_F = 2mA$ Note 1,4			
Viewing Angle	2 heta 1/2		60		deg	Note 2 (Fig.6)			
Peak Emission Wavelength	λр		635		nm	Measurement @Peak (Fig.1)			
Dominant Wavelength	λd		623		nm	Note 3			
Spectral Line Half-Width	Δλ		40		nm				
Forward Voltage	VF		1.7	2.2	V	$I_F = 2mA$			
Reverse Current	Ir			10	μA	$V_R = 5V$			

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, λ_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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