

Through Hole Lamp Product Data Sheet

> **LTL-307C Spec No.: DS-20-93-0089** Effective Date: 06/13/2000 Revision: -



BNS-OD-FC001/A4

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Features

- * Ultra brightness..
- * Versatile mounting on p.c. board or panel.
- * I.C. compatible/low current requirement..
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source Color		
LTL-307C	Red Diffused	AlGaAs Red		

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.

Part No.: LTL-307C

Page : 1 of 4



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Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	200	mA	
Continuous Forward Current	40	mA	
Derating Linear From 50°C	0.5	mA/°C	
Reverse Voltage	4	V	
Operating Temperature Range	-40° C to $+ 100^{\circ}$ 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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Electrical / Optical Characteristics at TA=25°C								
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition		
Luminous Intensity	Iv	40	135		mcd	I _F = 20mA Note 1,4		
Viewing Angle	2 heta 1/2		50		deg	Note 2 (Fig.6)		
Peak Emission Wavelength	λр		660		nm	Measurement @Peak (Fig.1)		
Dominant Wavelength	λ d		638		nm	Note 3		
Spectral Line Half-Width	Δλ		20		nm			
Forward Voltage	$V_{\rm F}$		1.8	2.4	V	$I_F = 20 m A$		
Reverse Current	Ir			100	μA	$V_R = 4V$		
Capacitance	С		30		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, 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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