



Spec No.: DS-20-96-0076Effective Date: 05/31/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics

No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

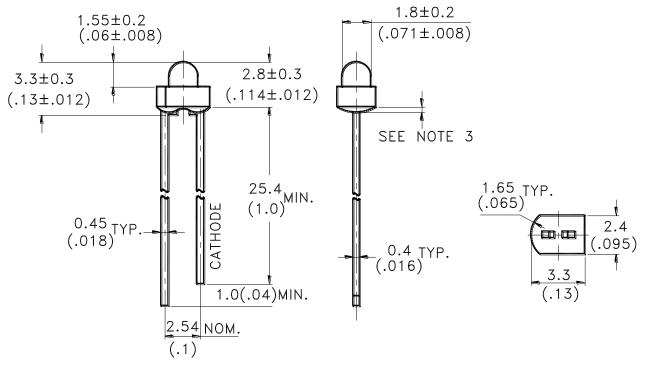
LITEON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Low power consumption.
- * General purpose leads.
- * I.C. Compatible/low current requirements.
- * Reliable and rugged

Package Dimensions



Part No.	Lens	Source Color		
LTL-N709Y	Yellow Diffused	Yellow		

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-N709Y 4 Page: 1 of

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-N709Y of Page: 4

LITEON ELECTRONICS, INC.

Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	3.7	12.6		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 heta 1/2		38		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		588		nm	Note 3
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	V_{F}		2.1	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	I _R			100	μΑ	$V_R = 5V$
Capacitance	С		15		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 $\pm 15\%$.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

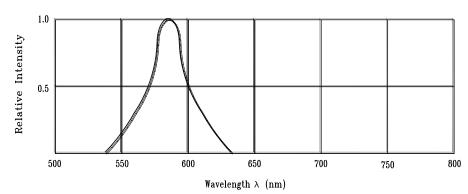
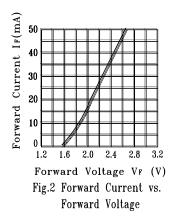
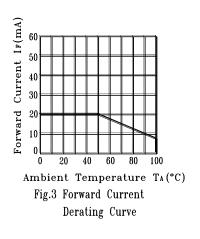
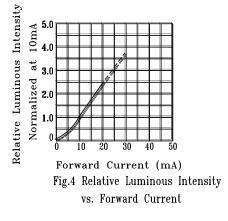


Fig.1 Relative Intensity vs. Wavelength







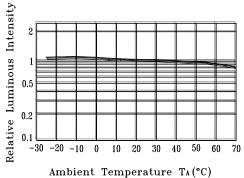


Fig.5 Luminous Intensity vs. Ambient Temperature

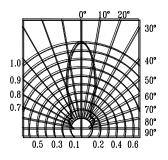


Fig.6 Spatial Distribution

Part No.: LTL-N709Y 4 Page: 4 of