



Spec No.: DS-50-92-0026 Effective Date: 11/27/2004

Revision: E

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

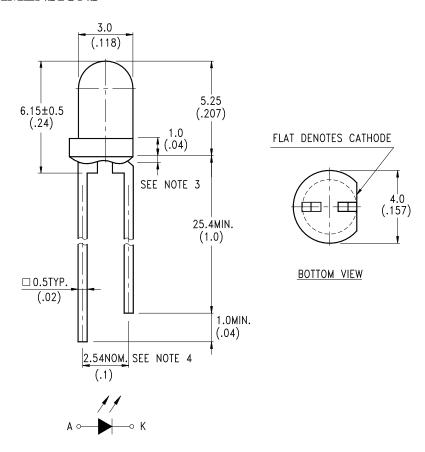
LITEON LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

FEATURES

- * SELECTED TO SPECIFIC ON-LINE INTENSITY AND RADIANT INTENSITY RANGES
- * LOW COST MINIATURE PLASTIC END LOOKING PACKAGE
- * MECHANICALLY AND SPECTRALLY MATCHED TO THE LTR-4206 SERIES OF PHOTOTRANSISTOR
- * CLEAR TRANSPARENT COLOR PACKAGE

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(.039") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

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ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation	90	mW		
Peak Forward Current (300pps, 10 μ s pulse)	1	A		
Continuous Forward Current	60	mA		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to + 85°C			
Storage Temperature Range	-55°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds			

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN NO.
Aperture Radiant Incidence	Ee	0.184		0.54	mW/cm²	$I_F = 20 \text{mA}$	BIN A
		0.36		0.78			BIN B
		0.52		1.02			BIN C
		0.68					BIN D
Radiant Intensity	$I_{\rm E}$	1.383		4.06	mW/sr	$I_{\text{F}} = 20\text{mA}$	BIN A
		2.71		5.87			BIN B
		3.91		7.67			BIN C
		5.11					BIN D
Peak Emission Wavelength	λ _{Peak}		940		nm	$I_F = 20 mA$	
Spectral Line Half-Width	Δλ		50		nm	$I_F = 20 mA$	
Forward Voltage	$V_{\rm F}$		1.2	1.6	V	$I_F = 20 mA$	
Reverse Current	I_R			100	μ A	$V_R = 5V$	
Viewing Angle (See FIG.6)	$2 heta_{_{1/2}}$		20		deg.		

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

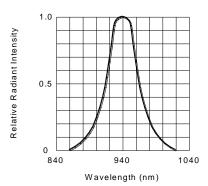


FIG.1 SPECTRAL DISTRIBUTION

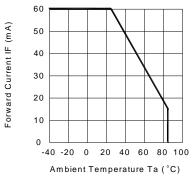


FIG.2 FORWARD CURRENT VS.
AMBIENT TEMPERATURE

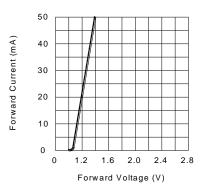


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

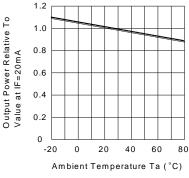


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

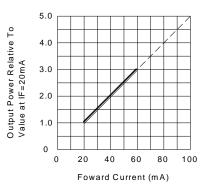


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

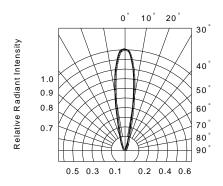


FIG.6 RADIATION DIAGRAM

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