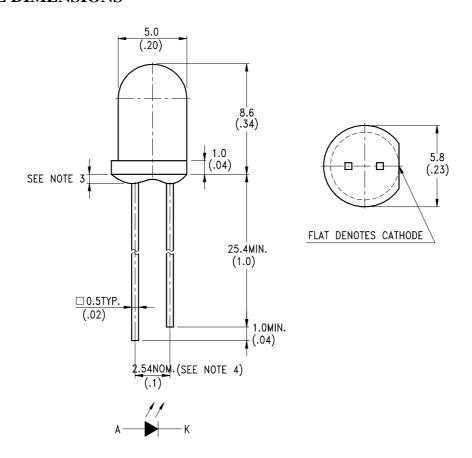
# LITEON LITE-ON TECHNOLOGY CORPORATION

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-3208 SERIES OF PHOTOTRANSISTOR
- \* CLEAR TRANSPARENT COLOR PACKAGE

## **PACKAGE DIMENSIONS**



#### NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25mm(.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.

Part No.: LTE-4208 DATA SHEET Page: 1 of 3

# LITEON LITE-ON TECHNOLOGY CORPORATION

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# **ABSOLUTE MAXIMUM RATINGS AT TA=25**

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation	100	mW		
Peak Forward Current (300pps, 10 µ s pulse)	3	A		
Continuous Forward Current	50	mA		
Reverse Voltage	5	V		
Operating Temperature Range	-40 to +85			
Storage Temperature Range	-55 to + 100			
Lead Soldering Temperature [1.6mm(.063") From Body]	260 for 5 Seconds			

# **ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN NO.
Aperture Radiant Incidence	Ee	0.44		0.96	mW/cm²	$I_F = 20 \text{mA}$	BIN A
		0.64		1.20			BIN B
		0.80		1.68			BIN C
		1.12		1.94			BIN D1
		1.30		2.54			BIN D2
		1.70		3.14			BIN D3
		2.10					BIN D4
Radiant Intensity	I <sub>E</sub>	3.31		7.22	mW/sr	$I_{\rm F}=20 mA$	BIN A
		4.81		9.02			BIN B
		6.02		12.63			BIN C
		8.40		14.58			BIN D1
		9.72		19.08			BIN D2
		12.72		23.58			BIN D3
		15.72					BIN D4
Peak Emission Wavelength	Peak		940		nm	$I_F = 20 \text{mA}$	
Spectral Line Half-Width			50		nm	$I_F = 20 \text{mA}$	
Forward Voltage	$V_{\rm F}$		1.2	1.6	V	$I_F = 20 \text{mA}$	
Reverse Current	$I_R$			100	μA	$V_R = 5V$	
Viewing Angle (See FIG.6)	2 1/2		20		deg.		

Part No.: LTE-4208 DATA SHEET Page: 2 of 3

# LITEON LITE-ON TECHNOLOGY CORPORATION

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## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

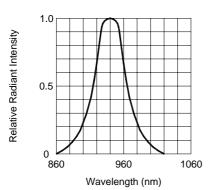


FIG.1 SPECTRAL DISTRIBUTION

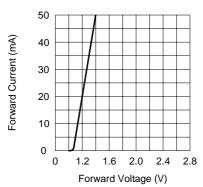


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

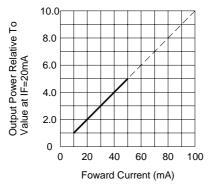


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

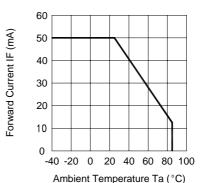


FIG.2 FORWARD CURRENT VS.
AMBIENT TEMPERATURE

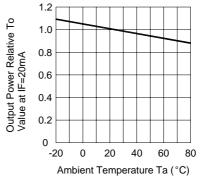


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

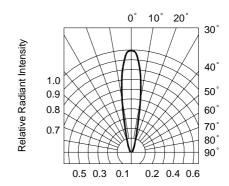


FIG.6 RADIATION DIAGRAM

Part No.: LTE-4208 DATA SHEET Page: 3 of 3