



IR Emitter and Detector Product Data Sheet

LTE-4238

Spec No.: DS-50-92-0020

Effective Date: 04/12/2000

Revision: A

LITE-ON DCC

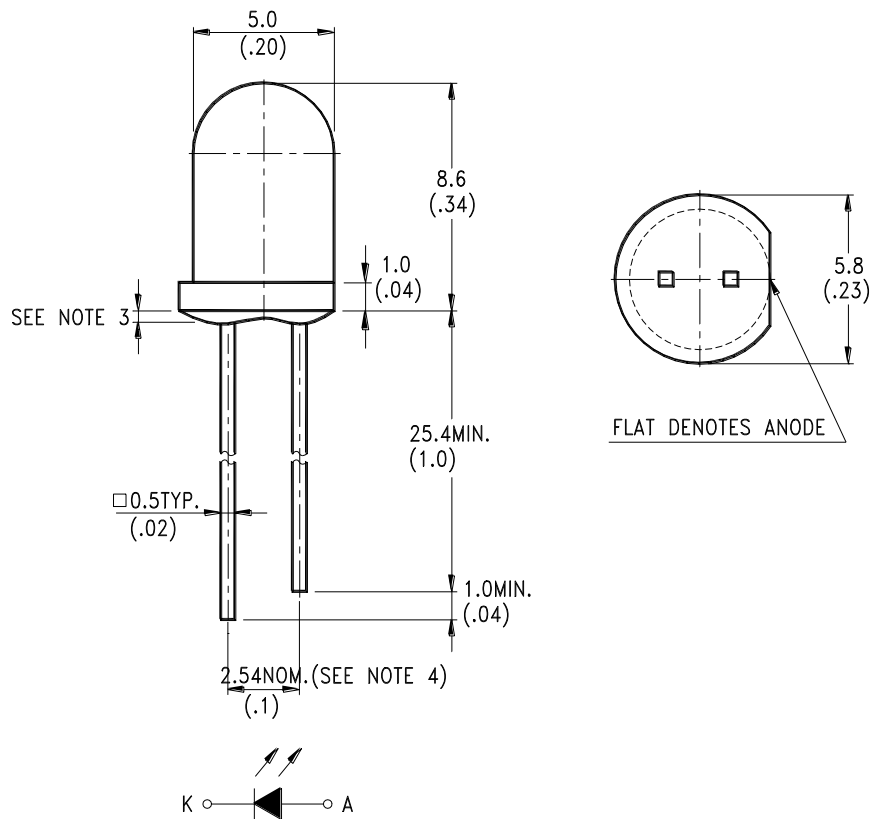
RELEASE

BNS-OD-FC001/A4

FEATURES

- * SELECTED TO SPECIFIC ON-LINE INTENSITY AND RADIANT INTENSITY RANGES
- * HIGH POWER OUT PUT
- * MECHANICALLY AND SPECTRALLY MATCHED TO THE LTR-3208 SERIES OF PHOTOTRANSISTOR
- * WAVELENGTH IS 880nm

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm} (.010\text{'})$ unless otherwise noted.
3. Protruded resin under flange is $1.0\text{mm} (.039\text{'})$ max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice for performance improvement.

ABSOLUTE MAXIMUM RATINGS AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	150	mW
Peak Forward Current (300pps, 10 μs pulse)	2	A
Continuous Forward Current	100	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 T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Aperture Radiant Incidence	E _e	0.64			mW/cm ²	I _F = 20mA
Radiant Intensity	I _E	4.81			mW/sr	I _F = 20mA
Peak Emission Wavelength	λ _{Peak}		880		nm	I _F = 20mA
Spectral Line Half-Width	Δ λ		50		nm	I _F = 20mA
Forward Voltage	V _F		1.3	1.8	V	I _F = 20mA
Reverse Current	I _R			100	μ A	V _R = 5V
Viewing Angle (See FIG.6)	2θ _{1/2}		20		deg.	

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

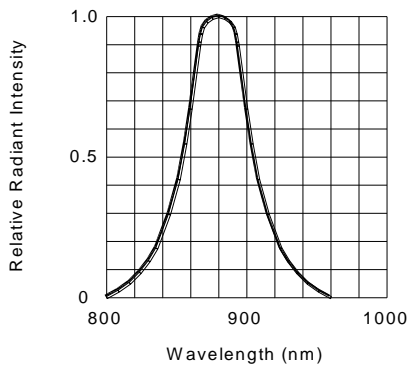


FIG.1 SPECTRAL DISTRIBUTION

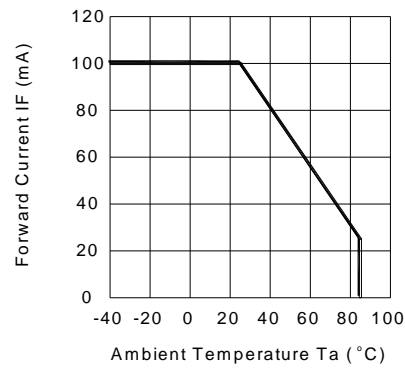


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

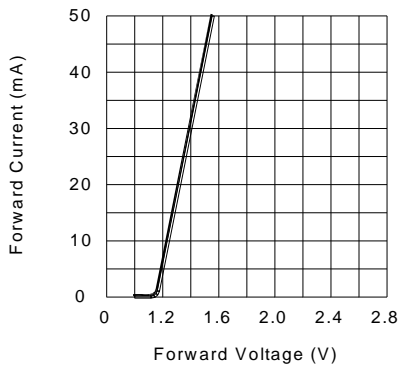


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

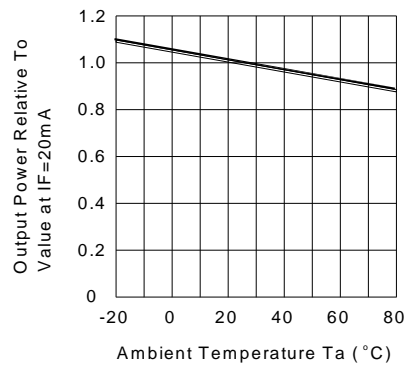


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

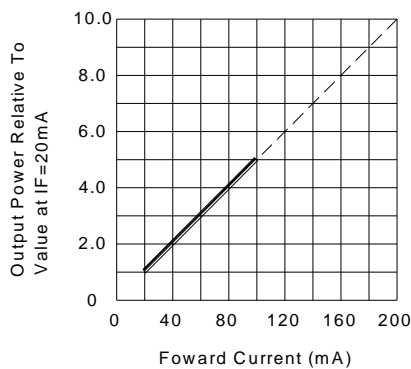


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

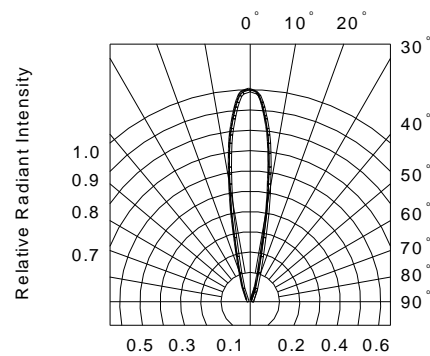


FIG.6 RADIATION DIAGRAM

Mouser Electronics

Authorized Distributor

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