



IR Emitter and Detector

Product Data Sheet

LTE-3271BL

Spec No.: DS50-2003-020

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Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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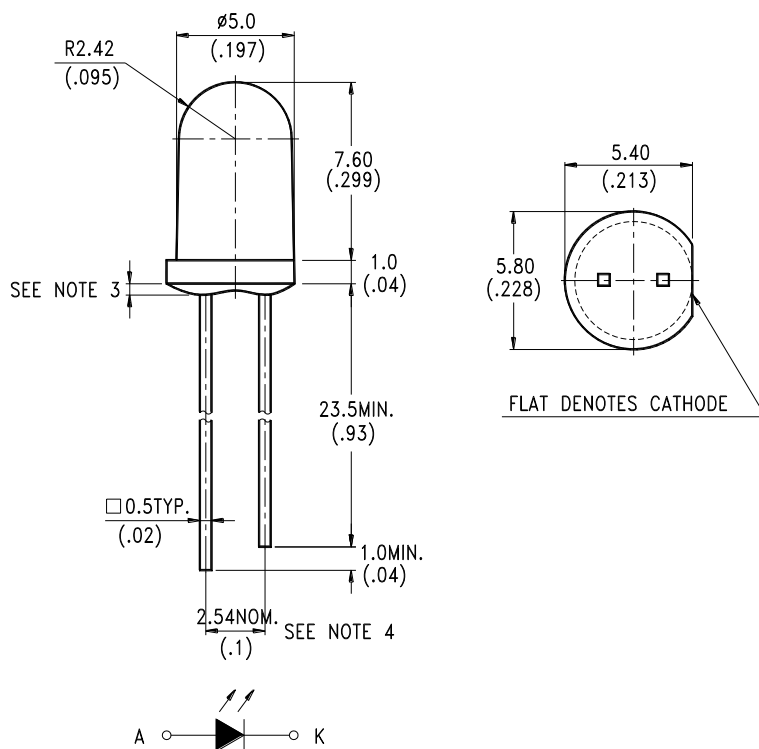
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<http://www.liteon.com/opto>

FEATURES

- * SPECIAL FOR HIGH CURRENT AND LOW FORWARD VOLTAGE
- * HIGH POWER
- * AVAILABLE FOR PULSE OPERATING
- * WIDE VIEWING ANGLE
- * BLUE TRANSPARENT COLOR PACKAGE
- * AMMO PACK
- * TIN DIPPING LEADS

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Protruded resin under flange is 1.5mm (.059") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.



LITE-ON TECHNOLOGY CORPORATION.

Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	150	mW
Peak Forward Current (300pps, 10 μ s 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 TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN GRADE
Radiant Intensity	I _E	30			mW/sr	I _F = 100mA	BIN B
		44			mW/sr	I _F = 100mA	BIN C
		52			mW/sr	I _F = 100mA	BIN D
		62			mW/sr	I _F = 100mA	BIN E
Peak Emission Wavelength	λ_P		940		nm	I _F = 20mA	
Spectral Line Half-Width	$\Delta \lambda$		50		nm	I _F = 20mA	
Forward Voltage	V _F		1.25	1.6	V	I _F = 50mA	
Forward Voltage	V _F		1.85	2.3	V	I _F = 500mA	
Reverse Current	I _R			100	μ A	V _R = 5V	
Viewing Angle (See FIG.6)	2 $\theta_{1/2}$		50		deg.		

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

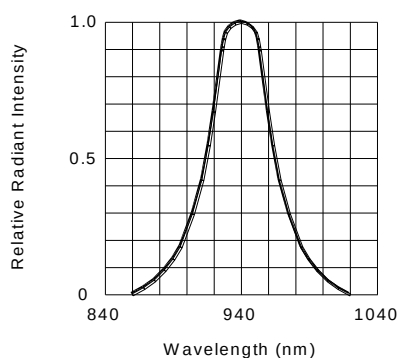


FIG.1 SPECTRAL DISTRIBUTION

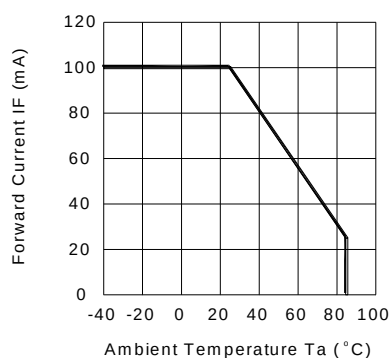


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

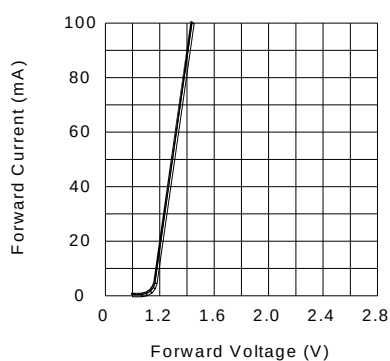


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

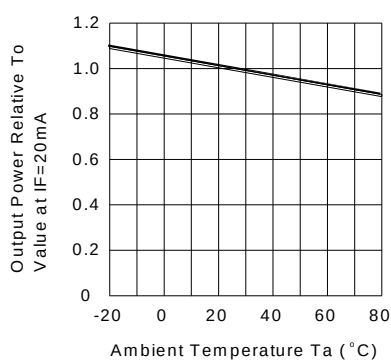


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

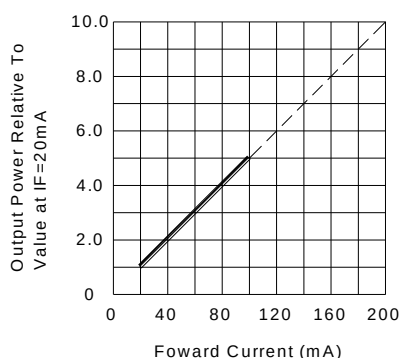


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

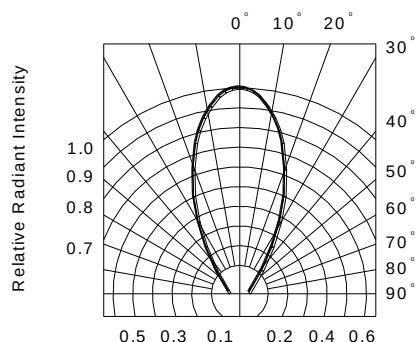


FIG.6 RADIATION DIAGRAM