



# IR Emitter and Detector Product Data Sheet

LTE-3376

Spec No.: DS-50-95-0023

Effective Date: 12/17/2003

Revision: C

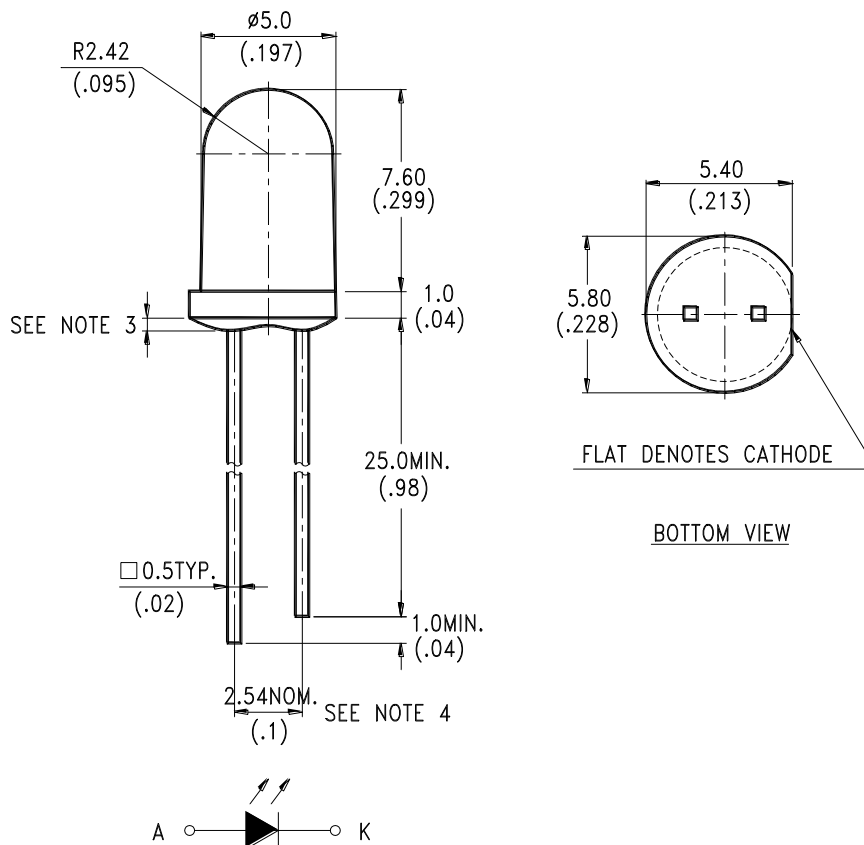
**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

**FEATURES**

- \* HIGH SPEED
- \* HIGH POWER
- \* AVAILABLE FOR PULSE OPERATING

**PACKAGE DIMENSIONS****NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  mm (.010") unless otherwise noted.
3. Protruded resin under flange is  $1.5$  mm (.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	200	mW
Peak Forward Current (300pps, 10 $\mu$ s pulse)	1	A
Continuous Forward Current	80	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
Radiant Intensity	$I_E$	30	45		mW/sr	$I_F = 50mA$
Peak Emission Wavelength	$\lambda_{Peak}$		850		nm	$I_F = 50mA$
Spectral Line Half-Width	$\Delta \lambda$		50		nm	$I_F = 50mA$
Forward Voltage	$V_F$		1.6	2.0	V	$I_F = 50mA$
Reverse Current	$I_R$			100	$\mu A$	$V_R = 5V$
Rise/Fall Time	$T_r/T_f$		30		nS	10%~90%
Viewing Angle (See FIG.6)	$2\theta_{1/2}$		30		deg.	

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

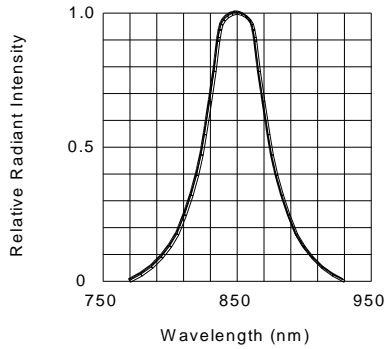


FIG.1 SPECTRAL DISTRIBUTION

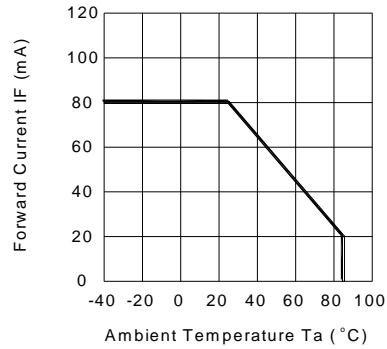


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

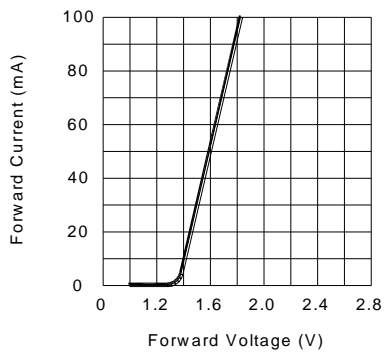


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

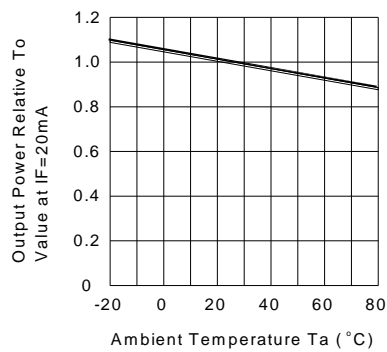


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

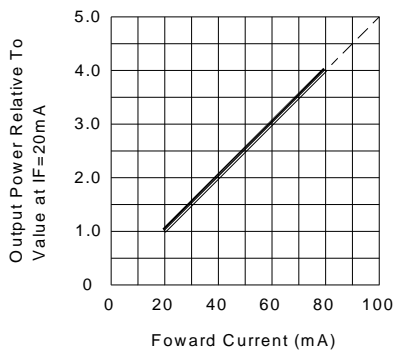


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

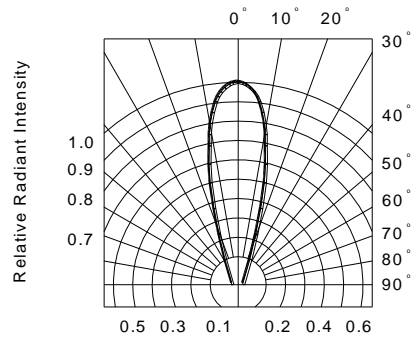


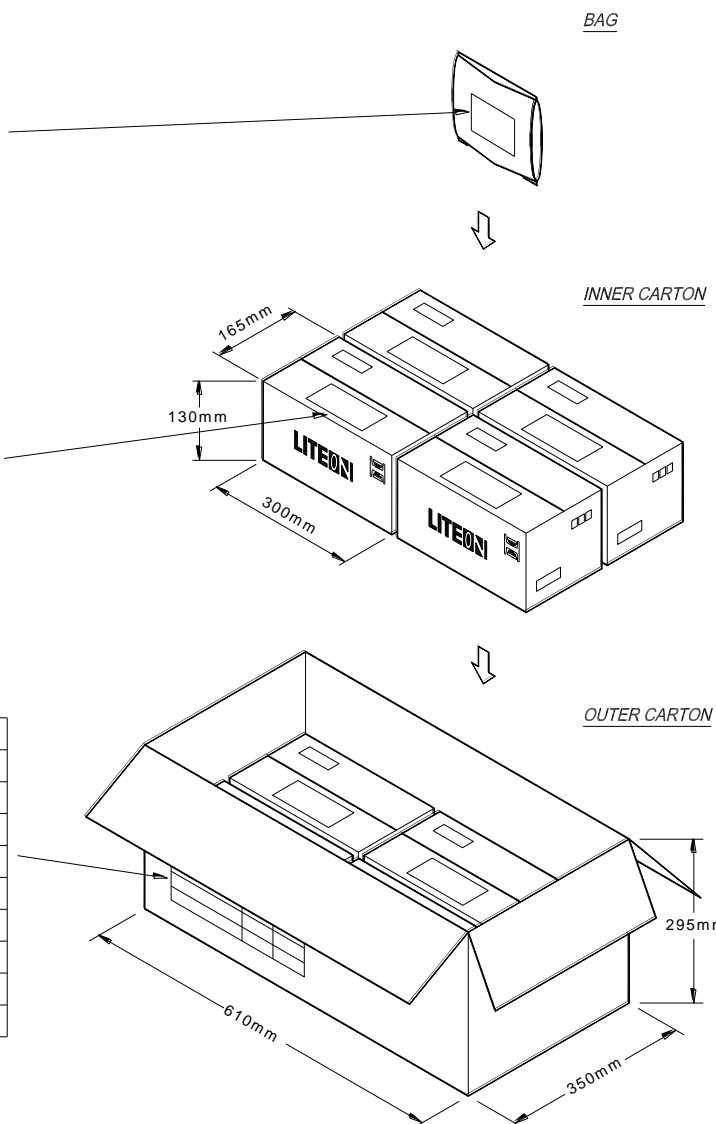
FIG.6 RADIATION DIAGRAM

## PACKING

<b>LITEON</b>	
LITE-ON TECHNOLOGY CORP.	
CUSTOMER:	_____
DEVICE TYPE:	LTE-3376
BIN GRADE:	_____
LOT NO.:	_____
QTY:	_____
RMK:	_____

CUSTOMER	:	_____
CUSTOMER P/N	:	_____
DEVICE TYPE	:	LTE-3376
BIN	:	_____
COLOR RANK	:	_____
QUANTITY	:	_____
Q. C STAMP	:	_____

DIVICE NO.	BIN	QUANTITY
LTE-3376		
Q. C STAMP		



Bag volume (pcs / Bag)	Inner carton volume (Bag / carton)	Outer carton volume (Box / Carton)	Total volume (pcs/outer carton)
1000	8	8	64000

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