



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

LITE-ON Technology Corp. / Optoelectronics

No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C.

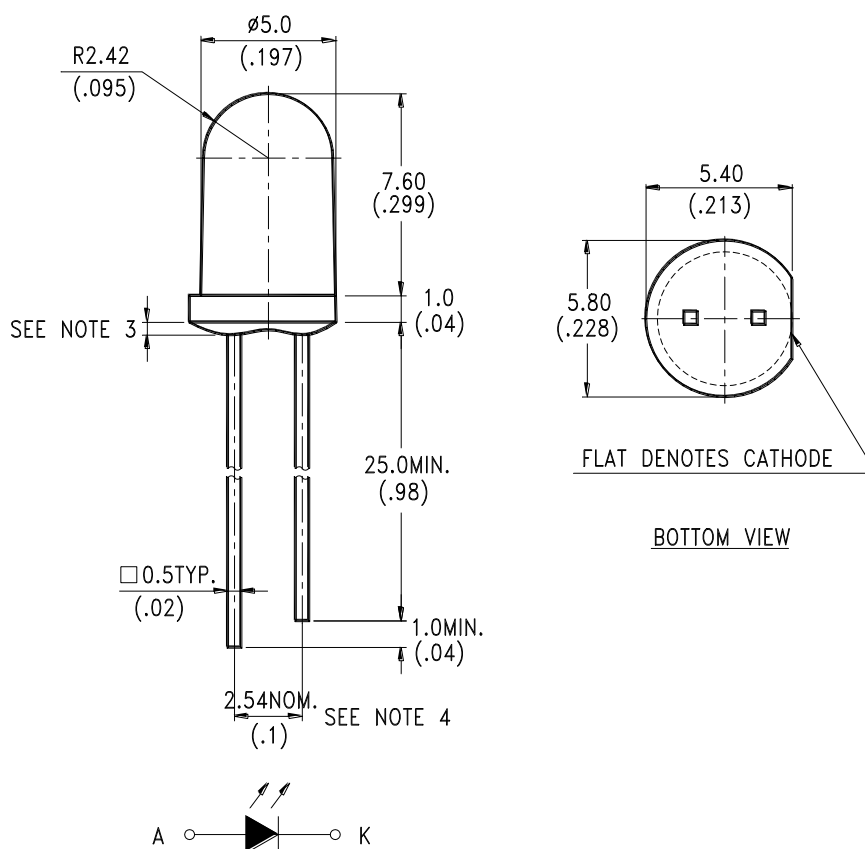
Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660

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

FEATURES

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

PACKAGE DIMENSIONS



NOTES:

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

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	200	mW
Peak Forward Current (300pps, 10 μ 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	$I_F = 50\text{mA}$
Peak Emission Wavelength	λ_{Peak}		850		nm	$I_F = 50\text{mA}$
Spectral Line Half-Width	$\Delta \lambda$		50		nm	$I_F = 50\text{mA}$
Forward Voltage	V_F		1.6	2.0	V	$I_F = 50\text{mA}$
Reverse Current	I_R			100	μ A	$V_R = 5\text{V}$
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)

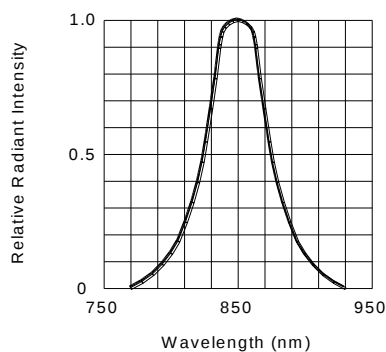


FIG.1 SPECTRAL DISTRIBUTION

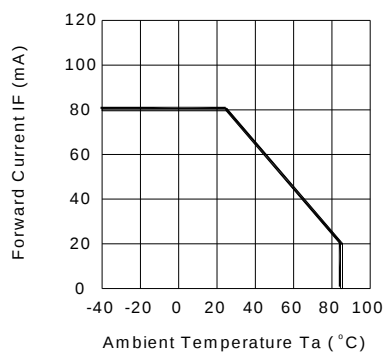


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

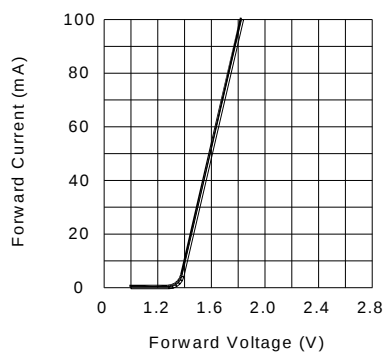


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

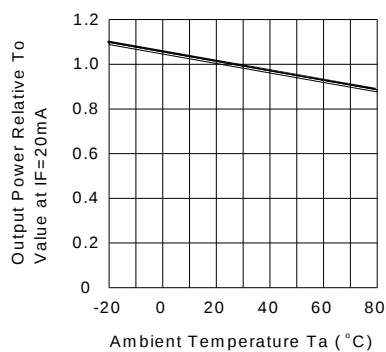


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

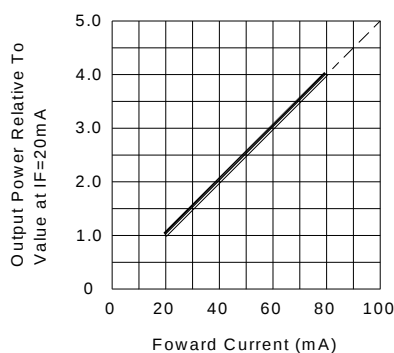


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

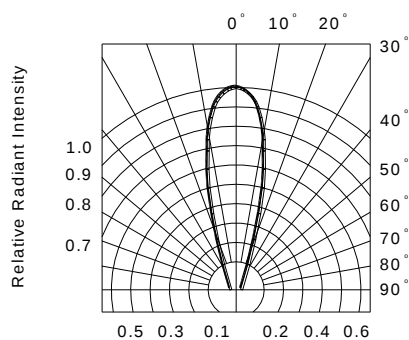


FIG.6 RADIATION DIAGRAM

PACKING

LITEON

LITE-ON TECHNOLOGY CORP.

CUSTOMER: _____

DEVICE TYPE: LTE-3376

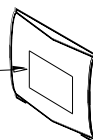
BIN GRADE: _____

LOT NO.: _____

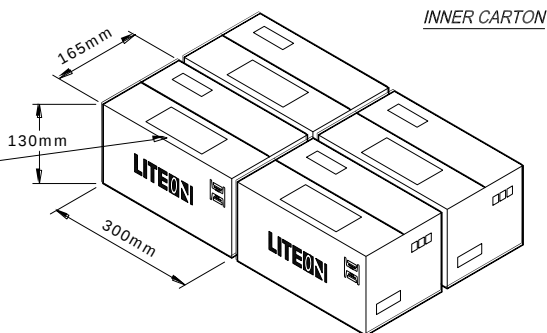
Q'TY: _____

RMK: _____

BAG



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

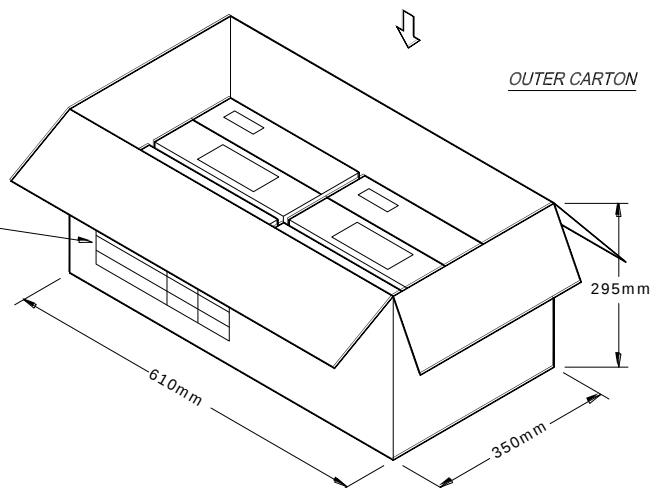


INNER CARTON



DIVICE NO.	BIN	QUANTITY
LTE-3376		

Q.C STAMP



OUTER CARTON

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

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com