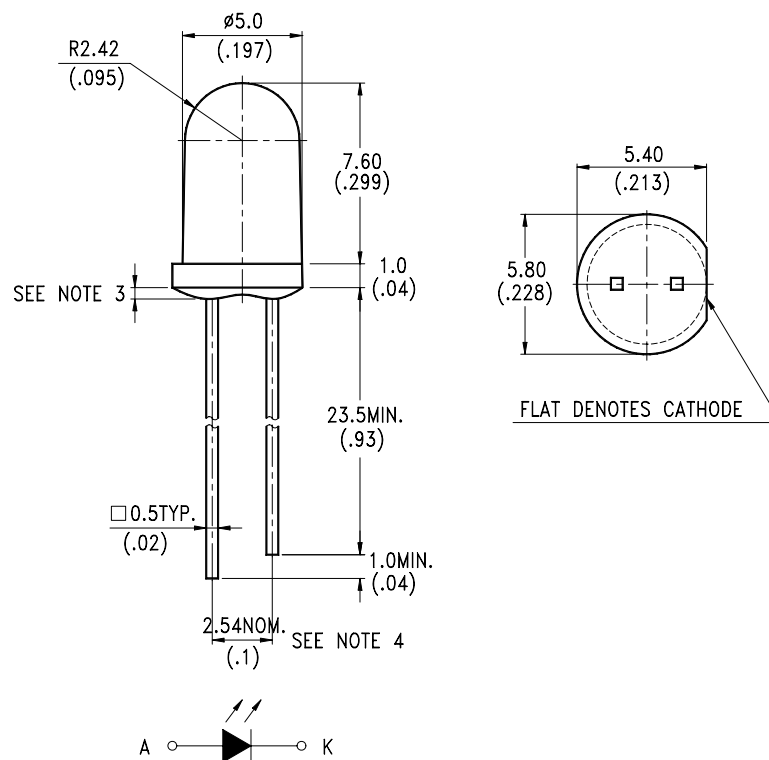


FEATURES

- * SPECIAL FOR HIGH CURRENT AND LOW FORWARD VOLTAGE
- * HIGH POWER
- * AVAILABLE FOR PULSE OPERATING
- * WIDE VIEWING ANGLE

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
Aperture Radiant Incidence	Ee	1.12			mW/cm ²	I _F = 20mA	BIN D
Radiant Intensity	I _E	8.42			mW/sr	I _F = 20mA	BIN D
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)

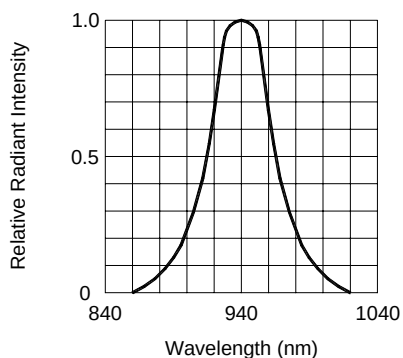


FIG.1 SPECTRAL DISTRIBUTION

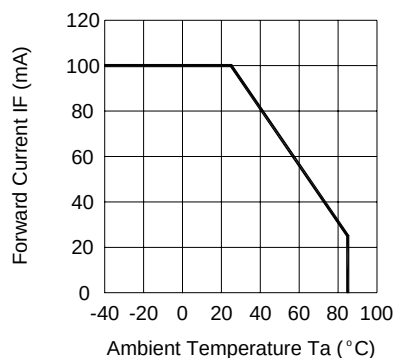


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

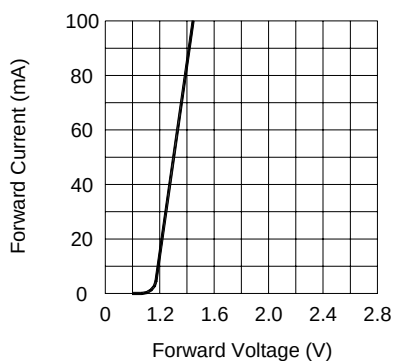


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

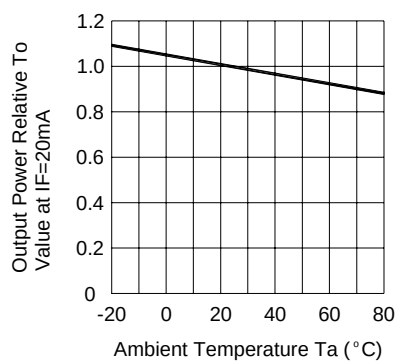


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

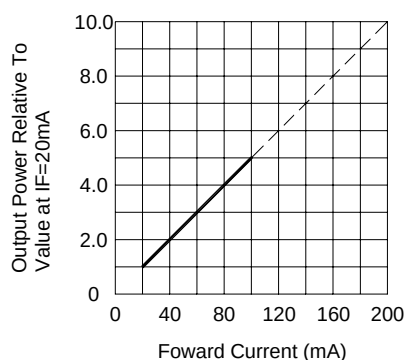


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

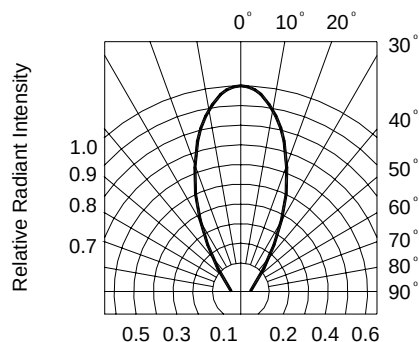
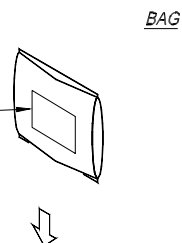


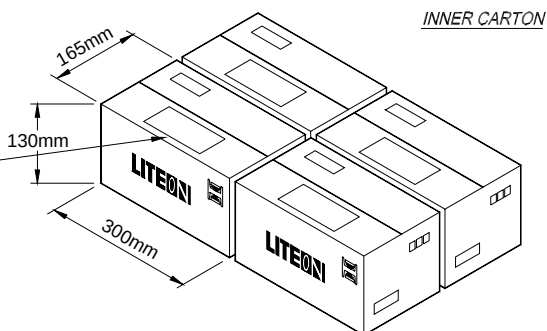
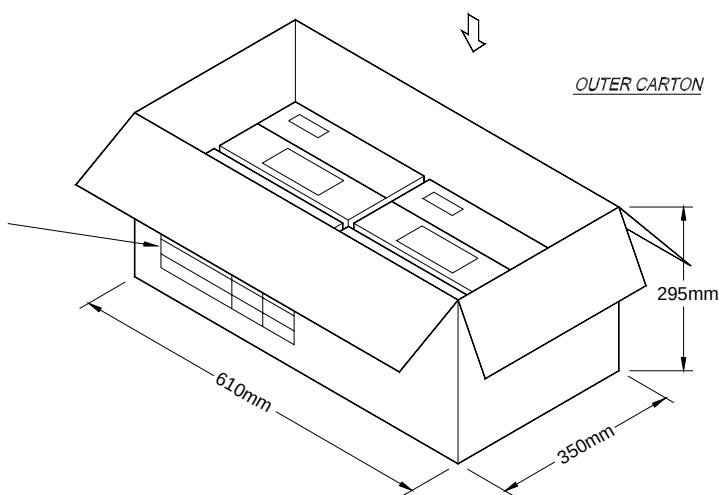
FIG.6 RADIATION DIAGRAM

PACKING

The image shows the LITE-ON TECHNOLOGY CORP. logo, which consists of the word "LITEON" in a bold, blue, sans-serif font, with "LITE" and "ON" joined together. Below the logo, the text "LITE-ON TECHNOLOGY CORP." is printed in a smaller, black, sans-serif font. Below this, there are five horizontal lines for an order form, each preceded by a label: "CUSTOMER:", "DEVICE TYPE:", "BIN GRADE:", "LOT NO.:", and "Q'TY:". The "DEVICE TYPE:" line has the text "LTE-3271B" printed on it. Below these lines is a label "RMK:" followed by a horizontal line. The entire form is enclosed in a thin black rectangular border.



CUSTOMER	:	_____
CUSTOMER P/N:	:	_____
DEVICE TYPE	:	_____
BIN	:	LTE-3271B
COLOR RANK	:	_____
QUANTITY	:	_____
Q. C STAMP	:	_____

[illegible]

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lite-On:

[LTE-3271B](#) [LTE-3271BL](#)