LITEON®
OPTOELECTRONICS

IR Emitter and Detector

Product Data Sheet

LTE-3677

Spec No.: DS-50-99-0015

Effective Date: 04/19/2000

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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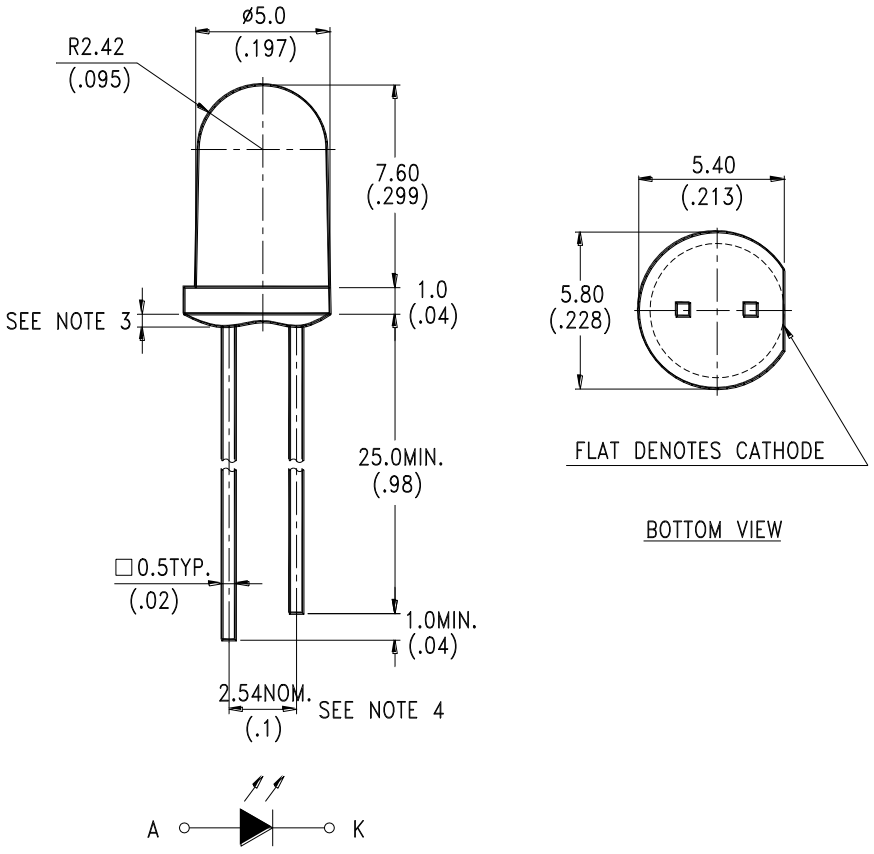
FEATURES

* HIGH SPEED
* HIGH POWER
* AVAILABLE FOR PULSE OPERATING
* CLEAR TRANSPARENT COLOR PACKAGE

PACKAGE DIMENSIONS



NOTES:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm(.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.

ABSOLUTE MAXIMUM RATINGS AT TA=25℃

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	260	mW
Peak Forward Current (300pps, 10 μs pulse)	1	A
Continuous Forward Current	100	mA
Reverse Voltage	5	V
Operating Temperature Range	0℃ to + 70℃	
Storage Temperature Range	-20℃ to + 85℃	
Lead Soldering Temperature [1.6mm(.063") From Body]	260℃ for 5 Seconds	

ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25℃

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN NO.
Aperture Radiant Incidence	Ee	1.28		2.64	mW/cm²	I_F = 20mA	BIN D
		1.76					BIN E
Radiant Intensity	I_E	9.62		19.85	mW/sr	I_F = 20mA	BIN D
		13.23					BIN E
Peak Emission Wavelength	λ_P	860	875	895	nm	I_F = 50mA	
Spectral Line Half-Width	$\Delta\lambda$		50		nm	I_F = 50mA	
Forward Voltage	V_F	1.3	1.5	1.7	V	I_F = 50mA	
Forward Voltage	V_F	1.4	1.67	1.85	V	I_F = 100mA	
Reverse Current	I_R			100	μA	V_R = 5V	
Rise/Fall Time	Tr/Tf		40		nS	10% ~ 90%	
Viewing Angle (See FIG.6)	$2\theta_{1/2}$		30		deg.	I_F = 20mA	

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

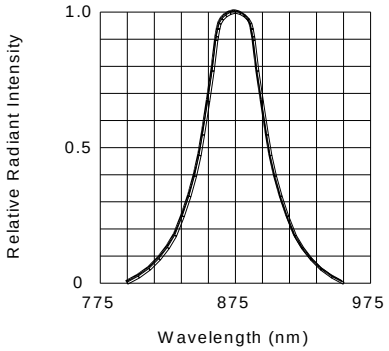


FIG.1 SPECTRAL DISTRIBUTION

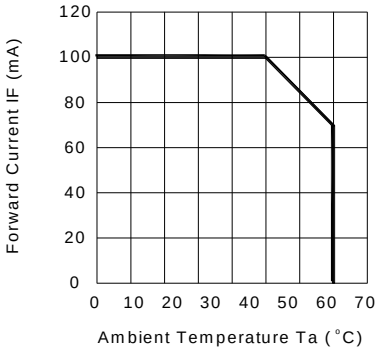


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

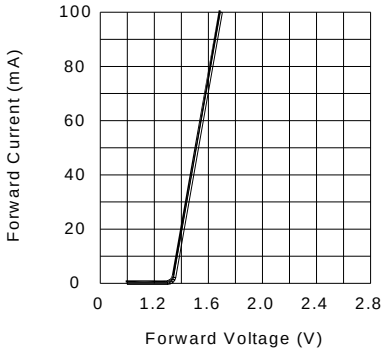


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

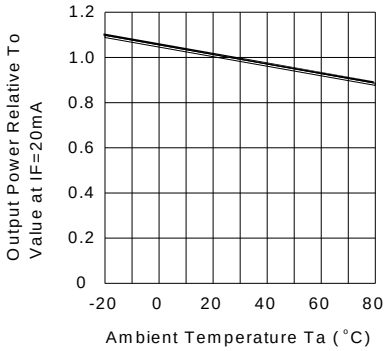


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

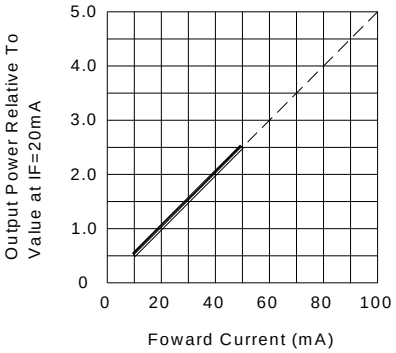


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

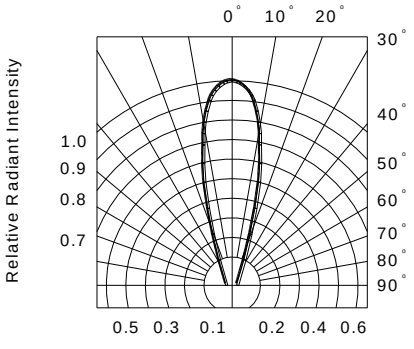


FIG.6 RADIATION DIAGRAM

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