

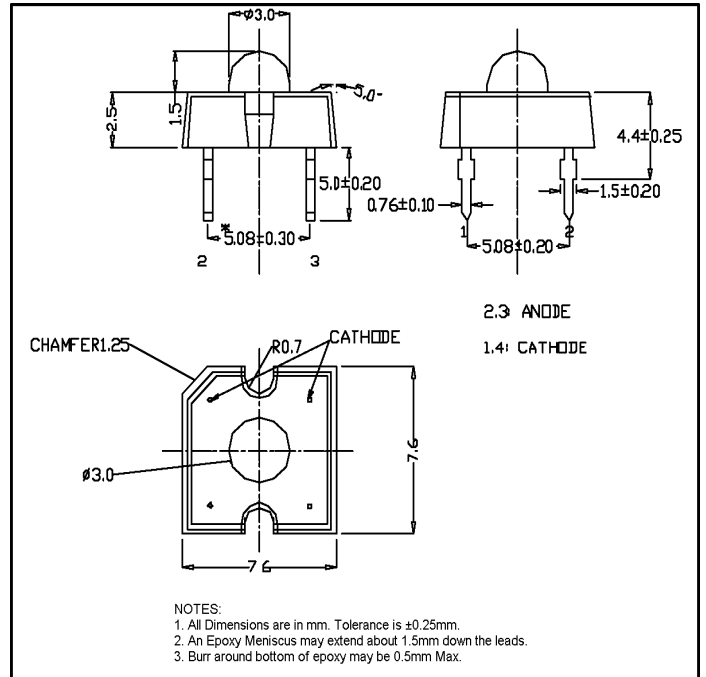
## LP377PWH1-90G

### Features

- 4 Pin Plastic Package
- High Current Operation
- High Flux Output
- Low Profile
- Water Clear Lens

### Applications

- Illuminator
- Indicators
- Architectural Lighting
- Channel Letters
- Strip Lighting



### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	140.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +100	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260	°C
Soldering Time	-	for 3 sec. max	-



**ATTENTION**  
OBSERVE PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE DEVICES

### Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =30mA	--	4.00	4.60	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =30mA	390.00	770.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	90°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =30mA	-	465	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =30mA	-	x=.31, y=.32	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =30mA	-	28	-	nm

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## LP377PWH1-90G Graphs

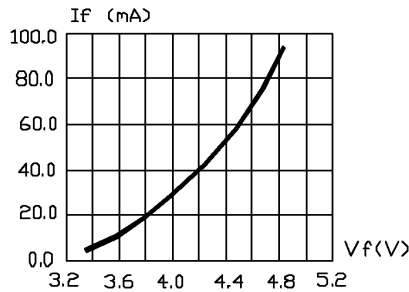


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

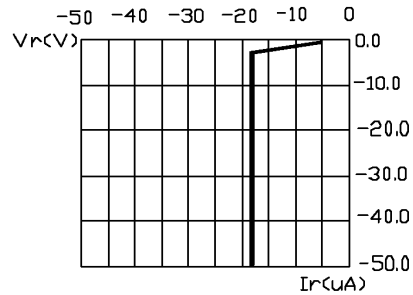


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

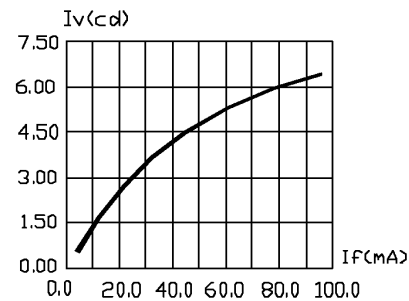


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

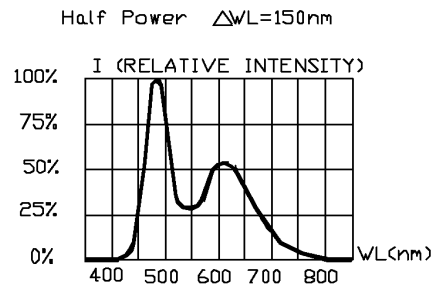


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

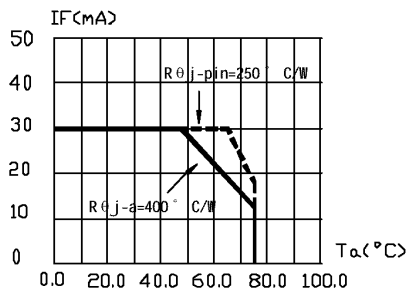


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE . DERATING BASED ON  $T_{jmax}=95^{\circ}C$

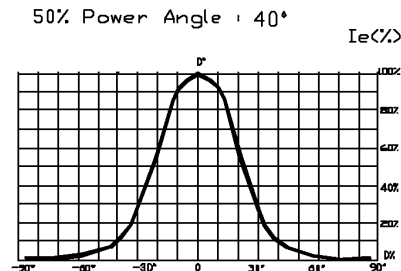


FIG.6 SPATIAL DISTRIBUTION.

1. Cathode PAD Area ( $0.18 \times 0.18 \times 2inch^2$ )
2. Height above nominal seating plane in inches(0.3inch)

### LP377PWH1 90G Graphs

CIE Chromaticity Diagram

