

### LP377PWN1-90G

#### Features

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

#### Applications

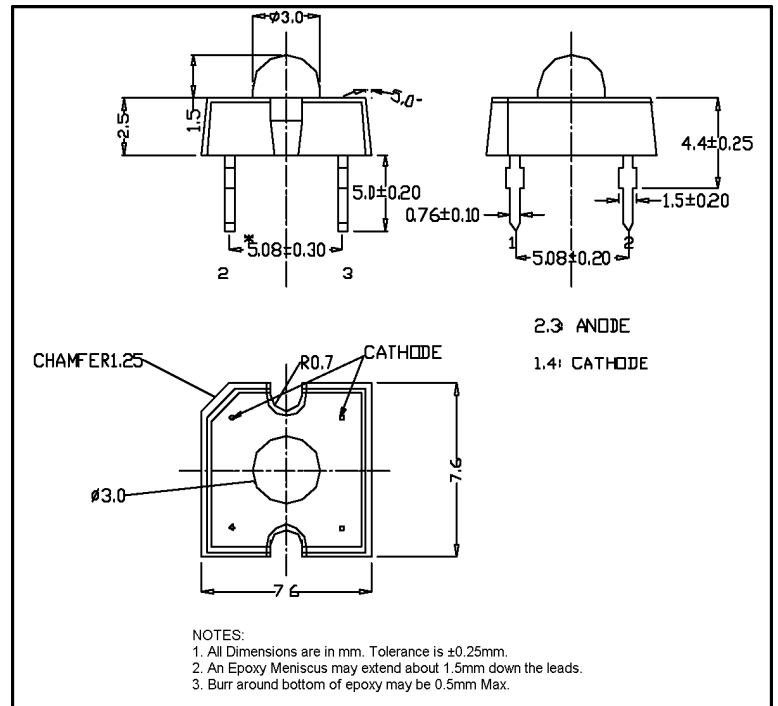
Illuminator  
 Indicators  
 Architectural Lighting  
 Channel Letters  
 Strip Lighting

#### 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>	132.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260	°C
Soldering Time	-	for 3 sec. max	-

#### 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	-	3.60	4.40	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	550.00	1100.00	-	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



## LP377PWN1-90G Graphs

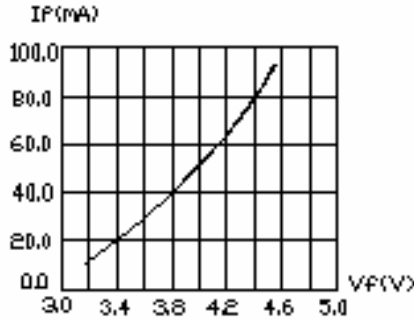


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

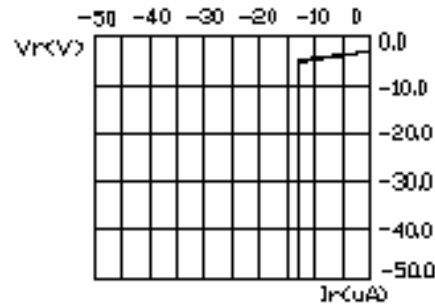


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE

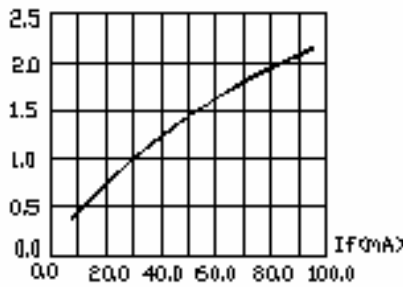


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

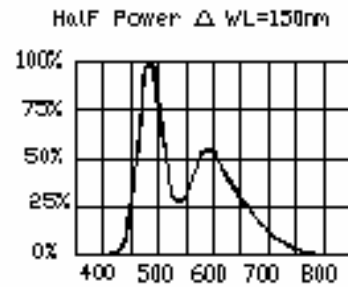


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

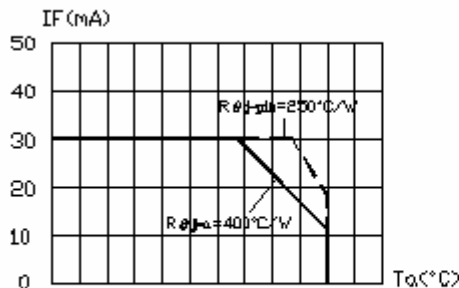


FIG.5 MAXIMUM FORWARD CURRENT VS. AMBIENT TEMPERATURE (Tjmax=120°C)

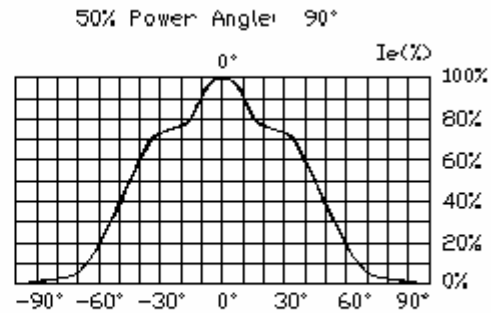


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 X 0.18 X 2inch<sup>2</sup>)
2. Height above nominal seating plane in inches(0.3inch)