

## LP377PWH1-90G

### Features

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

### Applications

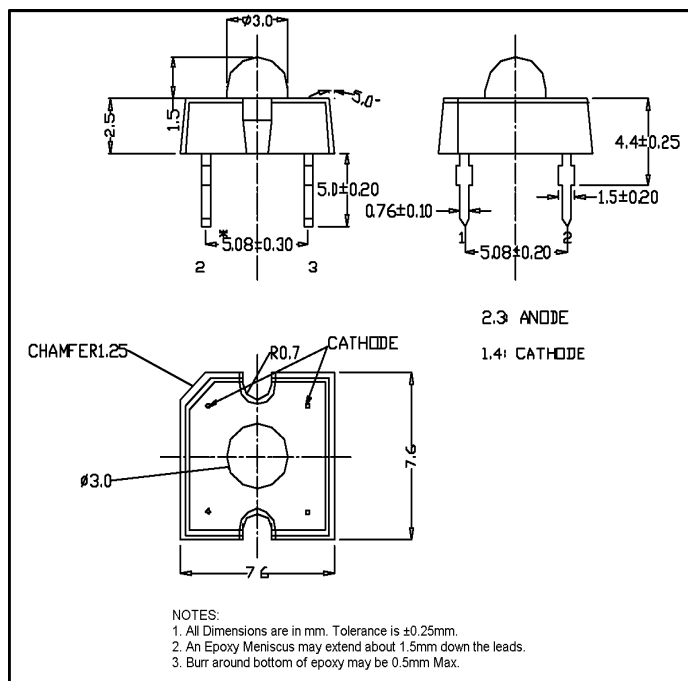
Illuminator  
Indicators  
Architectural Lighting  
Channel Letters  
Strip Lighting

### Maximum Ratings (Ta=25°C)

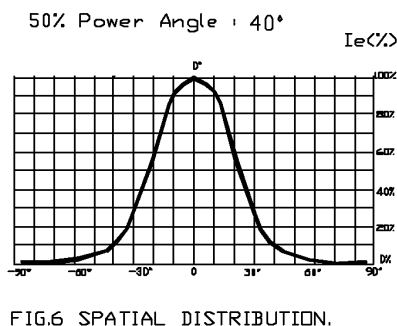
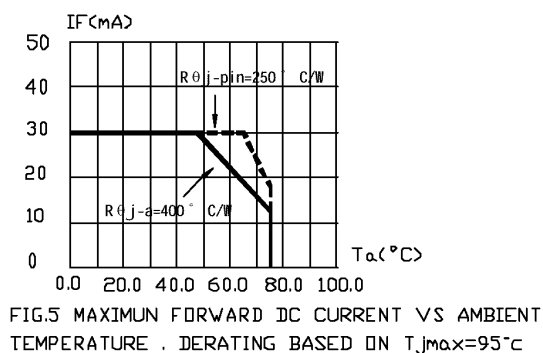
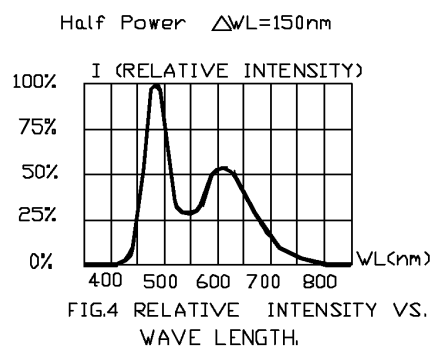
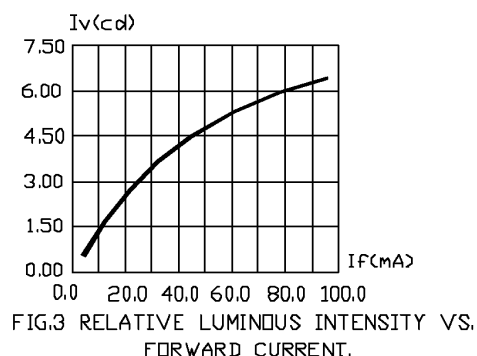
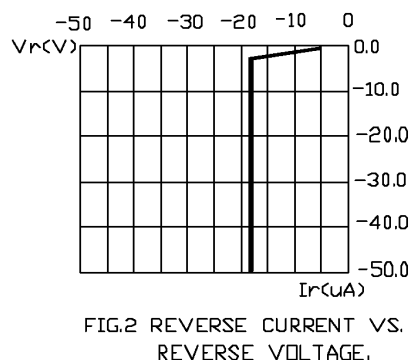
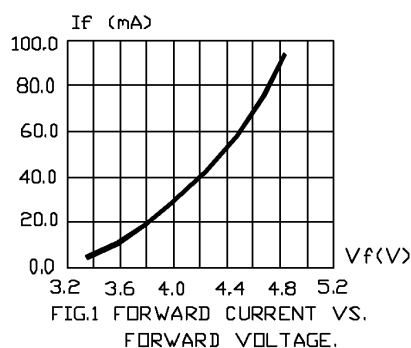
| Characteristic        | Symbol           | Max.           | Unit |
|-----------------------|------------------|----------------|------|
| Forward Current       | I <sub>F</sub>   | 30             | mA   |
| Reverse Voltage       | V <sub>R</sub>   | 5              | V    |
| Power Dissipation     | 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 | -    |

### 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,<br>y=.32 | -    | nm   |
| Spectral Line Half Width | Δλ                | I <sub>F</sub> =30mA | -      | 28              | -    | nm   |



**ATTENTION**  
OBSERVE PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE DEVICES



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

