

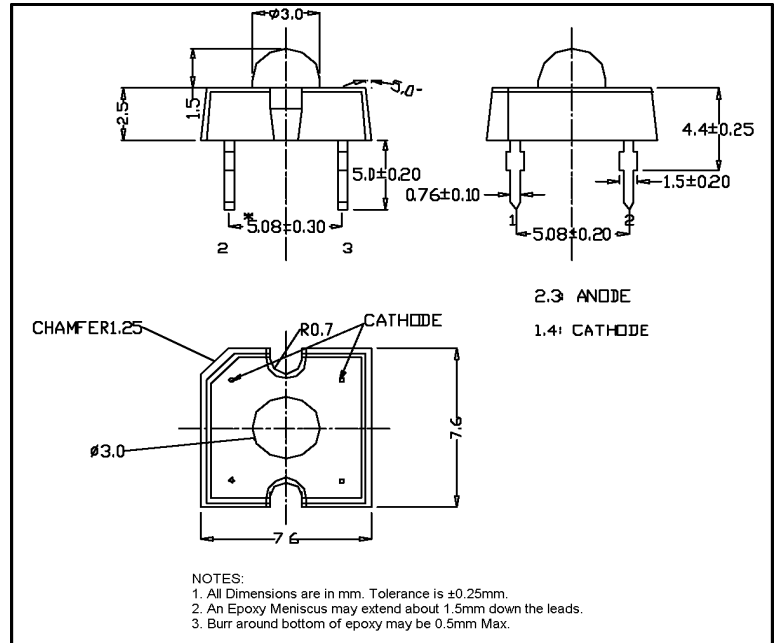
LP377NPG1-70G

Features

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

Applications

Automotive Interior Exterior Lighting
Rail Signals
Traffic Control Devices
Channel Letters
Strip Lighting
Architectural Lighting



Maximum Ratings (Ta=25°C)

| Characteristic | Symbol | Max. | Unit |
|-----------------------|------------------|----------------|------|
| Forward Current | I _F | 30 | mA |
| Reverse Voltage | V _R | 5.00 | V |
| Power Dissipation | P _D | 120.00 | mW |
| Operating Temperature | T _{opr} | -20 ~ +75 | °C |
| Storage Temperature | T _{stg} | -30 ~ +80 | °C |
| Soldering Temperature | T _{sol} | 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 _F | I _F =30mA | 3.60 | 4.00 | 4.60 | V |
| Reverse Current | I _R | V _R =5V | - | - | 100 | μA |
| Luminous Flux | Φ | I _F =30mA | 600.00 | 1300.00 | - | mlm |
| Viewing Angle | 2θ ^{1/2} | - | - | 70° | - | deg. |
| Peak Wavelength | λ _p | I _F =30mA | - | 520 | - | nm |
| Dominant Wavelength | λ _d | I _F =30mA | - | 525 | - | nm |
| Spectral Line Half Width | Δλ | I _F =30mA | - | 38 | - | nm |

Company Headquarters
3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725



Web: www.marktechopto.com | Email: info@marktechopto.com

California Sales Office:
950 South Coast Drive, Suite 225
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

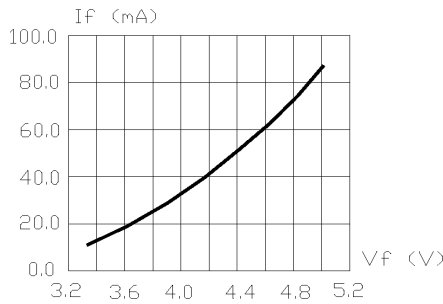


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

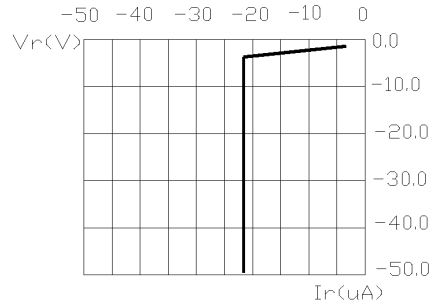


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

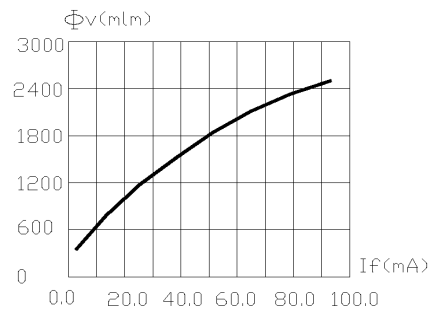


FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

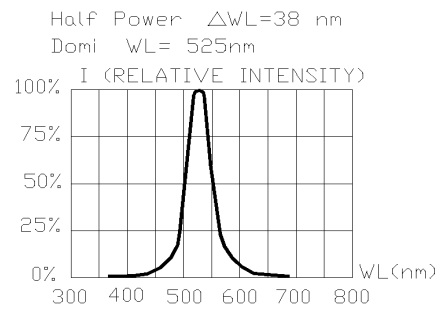


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

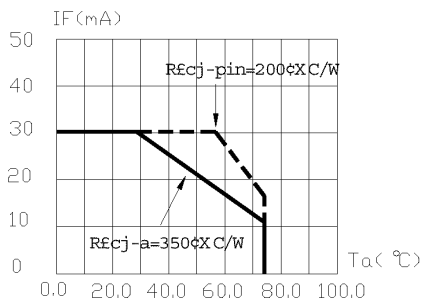


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=95^{\circ}\text{C}$

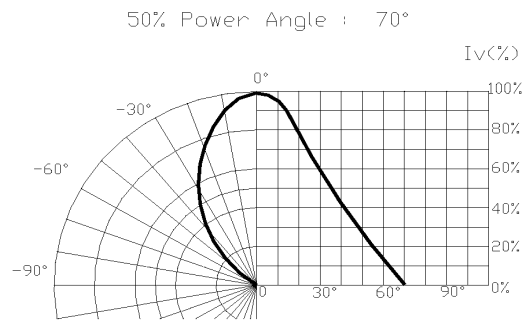


FIG.6 SPATIAL DISTRIBUTION.

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