

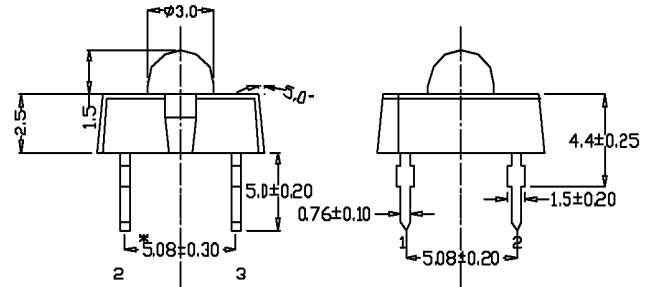
## LP377AYL1-70G

### Features

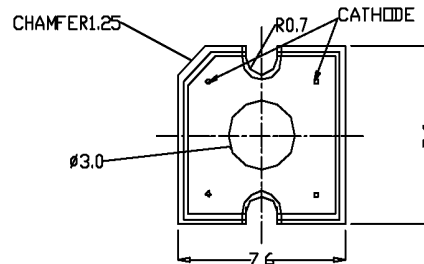
- Low Profile
- 4 Pin Plastic Package
- Water Clear Lens
- High Flux Output
- High Current Operation

### Applications

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



2.3 ANODE  
1.4: CATHODE



NOTES:  
1. All Dimensions are in mm. Tolerance is  $\pm 0.25$ mm.  
2. An Epoxy Meniscus may extend about 1.5mm down the leads.  
3. Burr around bottom of epoxy may be 0.5mm Max.

### Maximum Ratings ( $T_a=25^\circ\text{C}$ )

Characteristic	Symbol	Max.	Unit
Forward Current	$I_F$	70	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	210.00	mW
Operating Temperature	$T_{opr}$	-40 ~ +100	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	260	$^\circ\text{C}$
Soldering Time	-	for 5 sec. max	-

### Opto-Electrical Characteristics ( $T_a=25^\circ\text{C}$ )

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F=70\text{mA}$	-	2.50	3.00	V
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	100	$\mu\text{A}$
Luminous Flux	$\Phi$	$I_F=70\text{mA}$	3000.00	5000.00	-	mlm
Viewing Angle	$2\theta^{1/2}$	-	-	$70^\circ$	-	deg.
Peak Wavelength	$\lambda_p$	$I_F=70\text{mA}$	-	591	-	nm
Dominant Wavelength	$\lambda_d$	$I_F=70\text{mA}$	-	589	-	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F=70\text{mA}$	-	20	-	nm

**Company Headquarters**  
120 Broadway  
Menands, New York 12204  
Toll Free: 800.984.5337  
Fax: 518.432.7454



Web: [www.marktechopto.com](http://www.marktechopto.com) | Email: [info@marktechopto.com](mailto:info@marktechopto.com)

**California Sales Office:**  
950 South Coast Drive, Suite 265  
Costa Mesa, California 92626  
Toll Free: 800.984.5337  
Fax: 714.850.9314

## LP377AYL1-70G Graphs

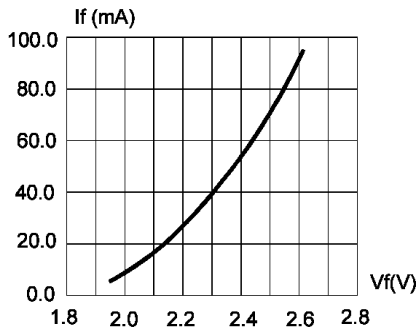


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

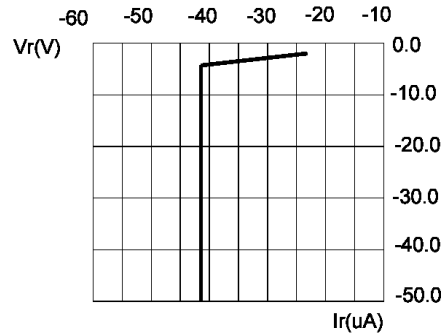


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

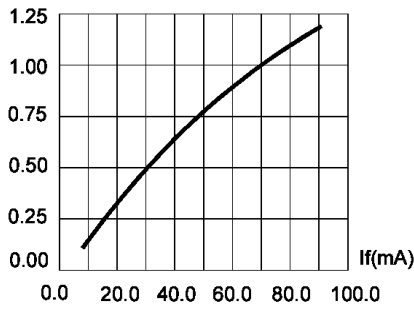


FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

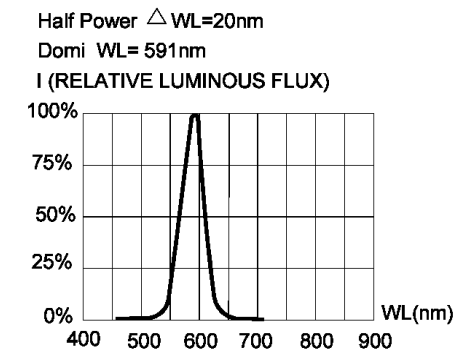


FIG.4 RELATIVE LUMINOUS FLUX VS. WAVELENGTH.

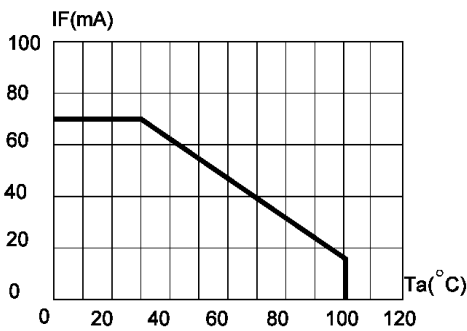


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=120°C)

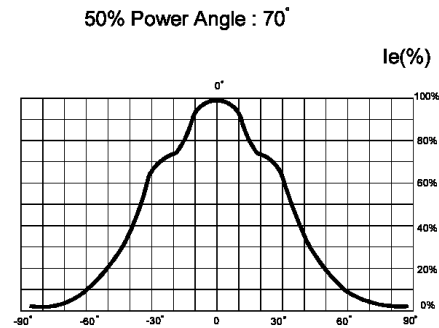


FIG.6 FAR FIELD PATTERN