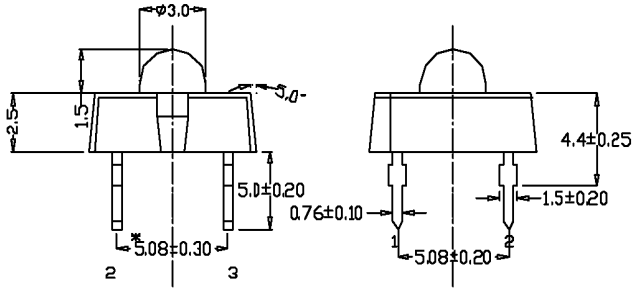
COTCO

P4 InGaAlP Yellow Ultra Bright LED

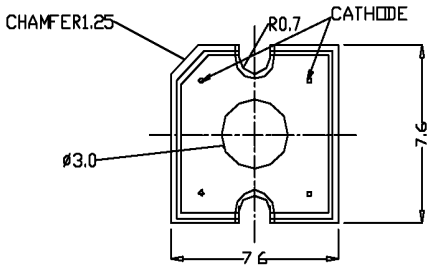
LP377AYL1−70G

Features

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



2.3 ANODE
1.4 CATHODE



Applications

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

NOTES:
1. All Dimensions are in mm. Tolerance is ±0.25mm.
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 (Ta=25°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	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 5 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=70mA	−	2.50	3.00	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Flux	Φ	I_F=70mA	3000.00	5000.00	−	mlm
Viewing Angle	$2\theta^{1/2}$	−	−	70°	−	deg.
Peak Wavelength	λp	I_F=70mA	−	591	−	nm
Dominant Wavelength	λd	I_F=70mA	−	589	−	nm
Spectral Line Half Width	Δλ	I_F=70mA	−	20	−	nm

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

Marktech Optoelectronics
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

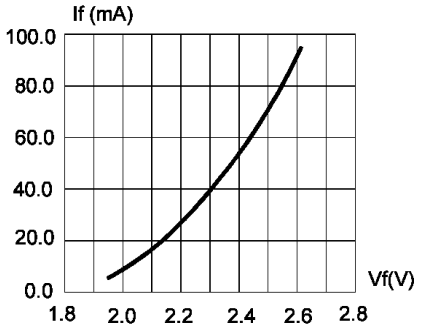


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

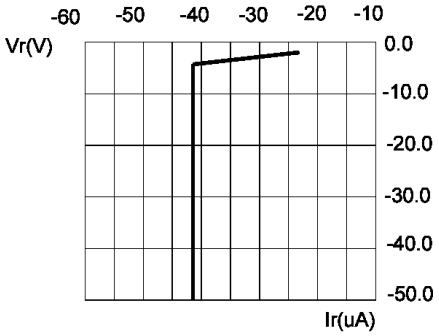


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

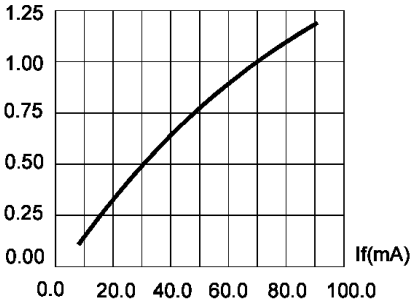


FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

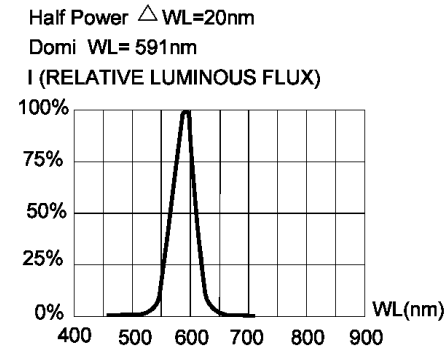


FIG.4 RELATIVE LUMINOUS FLUX VS. WAVELENGTH.

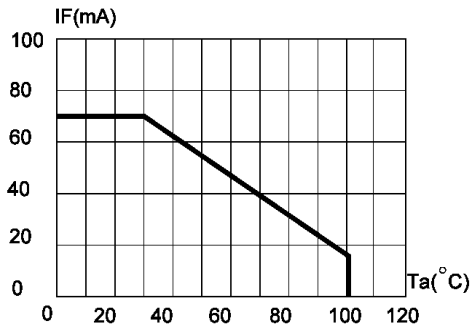


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=120°C)

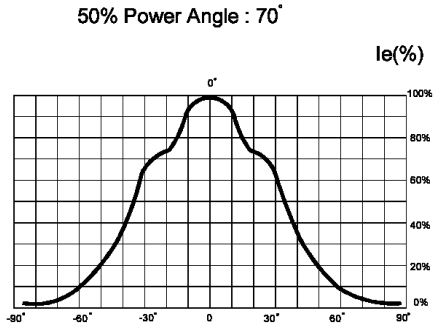


FIG.6 FAR FIELD PATTERN

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