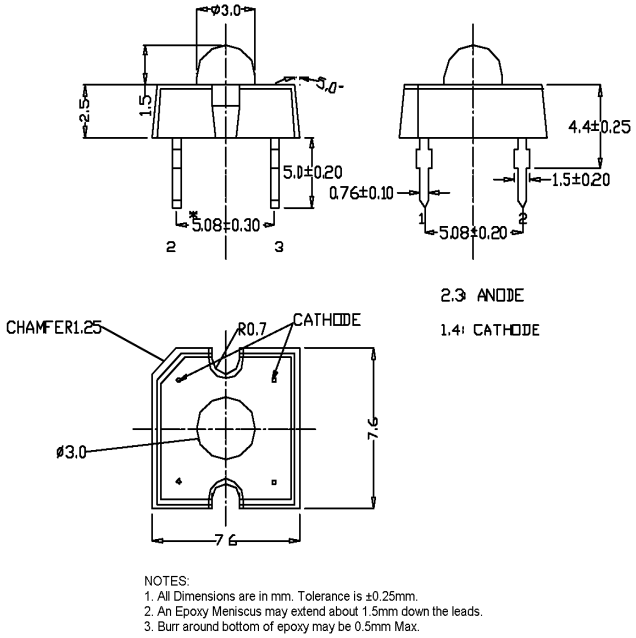
COTCO

P4 InGaN White Ultra Bright LED

LP377PWN1−60G



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.

Features

Water Clear Lens
Low Profile
4 Pin Plastic Package
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	V
Power Dissipation	P_D	132.00	mW
Operating Temperature	T_{opr}	−40 ~ +95	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	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_F	I_F=30mA	−	3.60	4.40	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Flux	Φ	I_F=30mA	770.00	1800.00	−	mlm
Viewing Angle	$2\theta^{1/2}$	−	−	70°	−	deg.
Peak Wavelength	λp	I_F=30mA	−	465	−	nm
Dominant Wavelength	λd	I_F=30mA	−	X=.30, Y=.31	−	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

LP377PWN1−60G Graphs

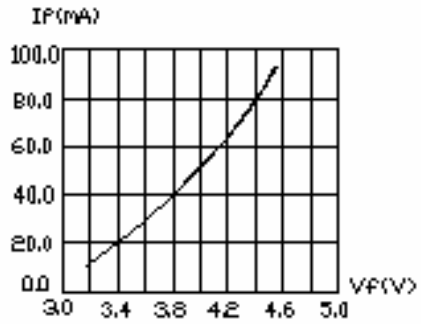


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

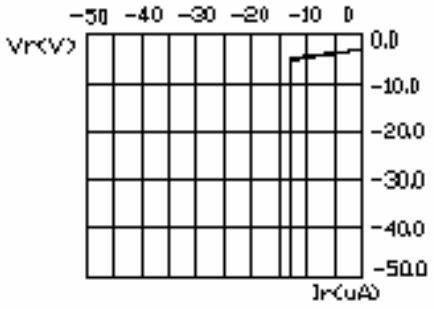


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE

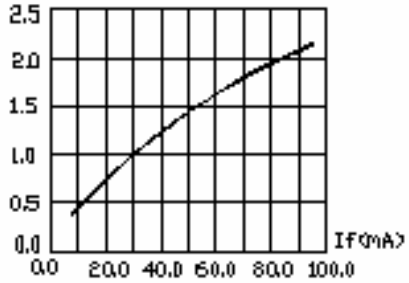


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

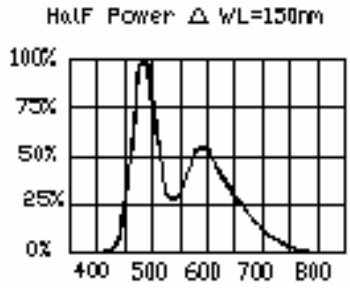


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGH

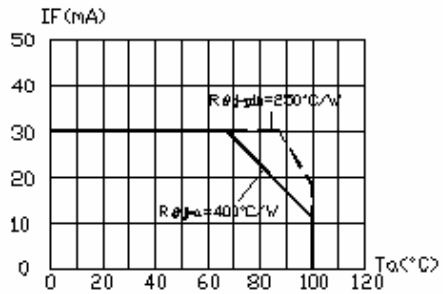


FIG.5 MAXIMUM FORWARD CURRENT VS. AMBIENT TEMPERATURE(T_{Jmax}=120°C)

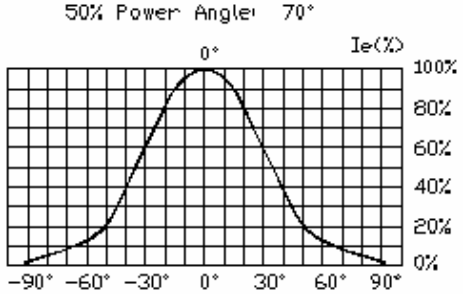


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 **X** 0.18 **X** 2inch^2)
2. Height above nominal seating plane in inches(0.3inch)

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