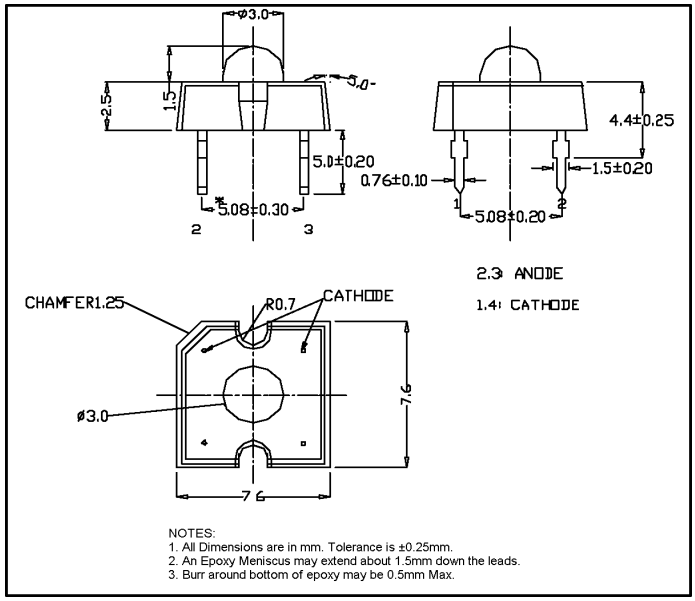
COTCO

P4 InGaN Blue Ultra Bright LED

LP377PBL1−60G



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	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	−

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	400.00	850.00	−	mlm
Viewing Angle	$2\theta^{1/2}$	−	−	60°	−	deg.
Peak Wavelength	λp	I_F=30mA	−	465	−	nm
Dominant Wavelength	λd	I_F=30mA	−	470	−	nm
Spectral Line Half Width	Δλ	I_F=30mA	−	28	−	nm

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LP377PBL1−60G Graphs

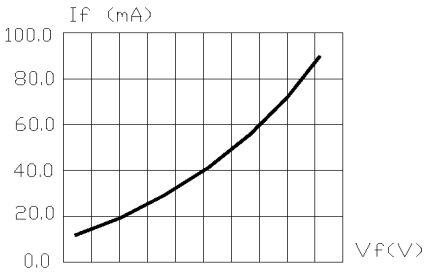

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

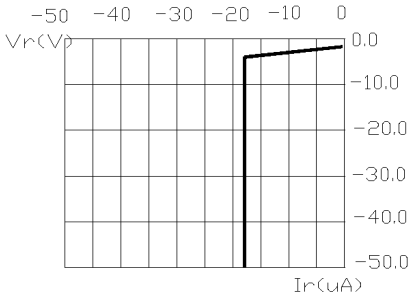

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

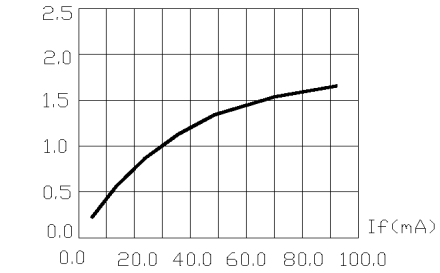

FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

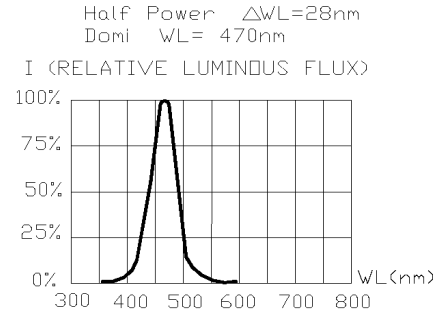

FIG.4 RELATIVE LUMINOUS FLUX VS. WAVELENGTH.

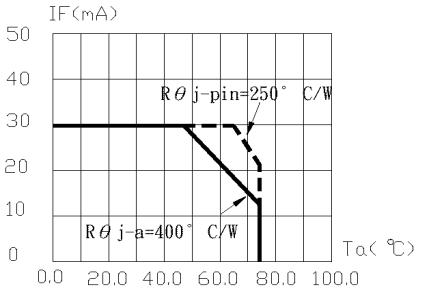

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=95°C)

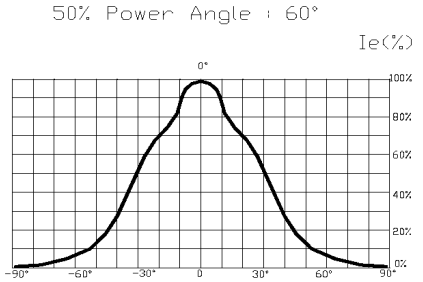

FIG.6 FAR FIELD PATTERN

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

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