

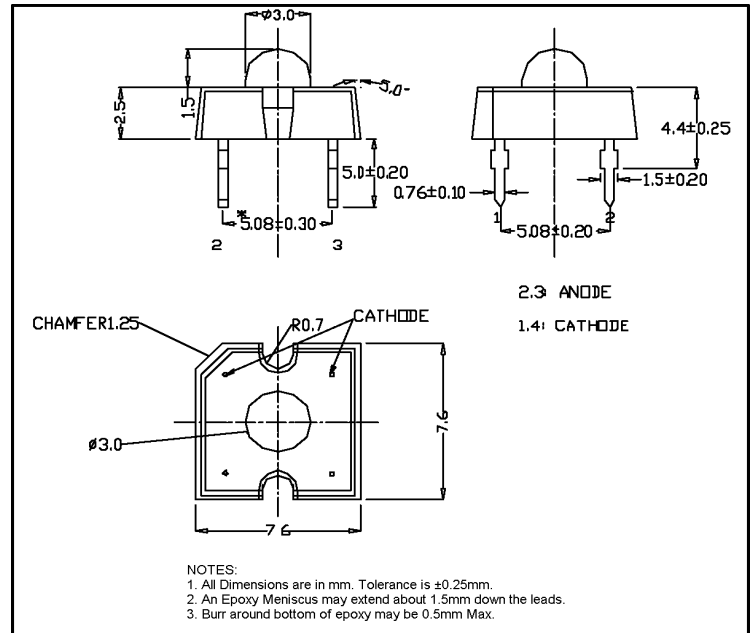
LP377NBL1-70G

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	140.00	mW
Operating Temperature	T _{opr}	-40 ~ 100	°C
Storage Temperature	T _{stg}	-40 ~ 100	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 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	--	4.00	4.60	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Luminous Flux	Φ	I _F =30mA	250.00	450.00	-	mlm
Viewing Angle	2θ ^{1/2}	-	-	70°	-	deg.
Peak Wavelength	λ _p	I _F =30mA	-	465	-	nm
Dominant Wavelength	λ _d	I _F =30mA	-	470	-	nm
Spectral Line Half Width	Δλ	I _F =30mA	-	28	-	nm

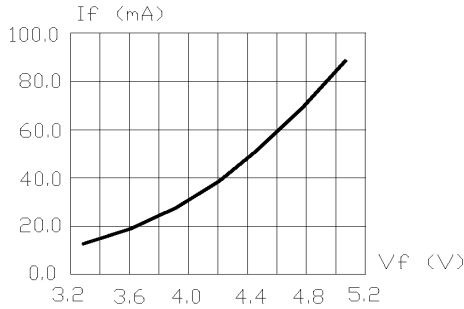


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

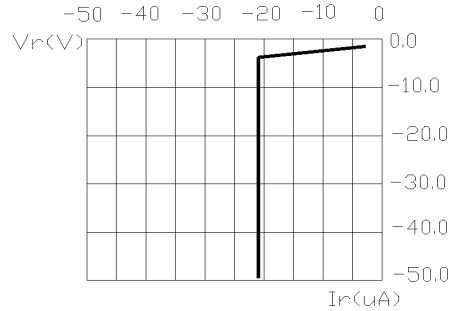


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

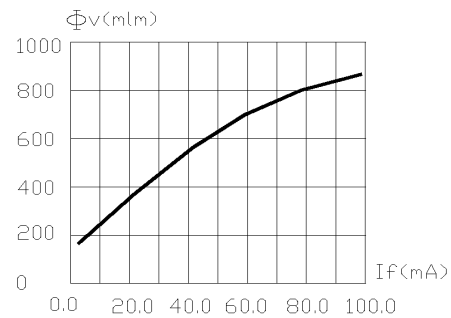


FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

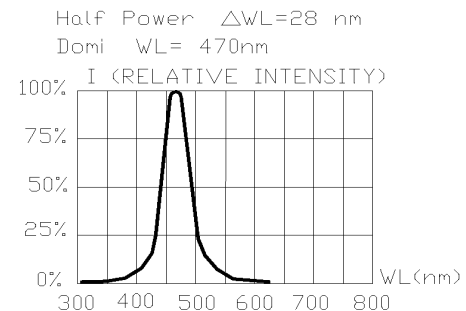


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

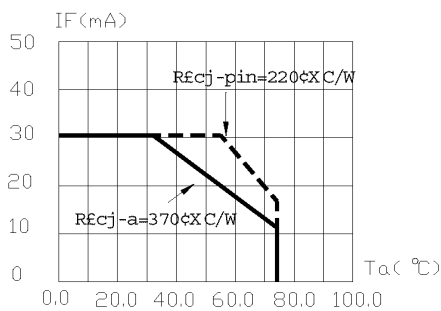


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=95^{\circ}C$

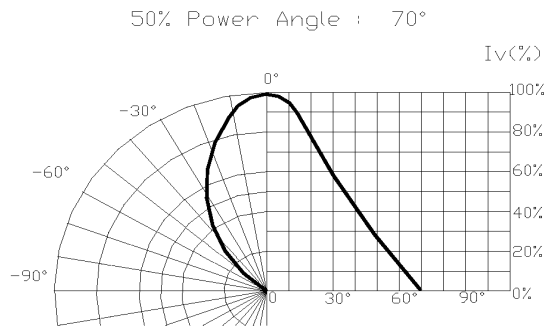


FIG.6 SPATIAL DISTRIBUTION.

1. Cathode PAD Area (0.18 × 0.18 × 2inch²)
2. Height above nominal seating plane in inches(0.3inch)