

LP476THR1-90G

Features

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

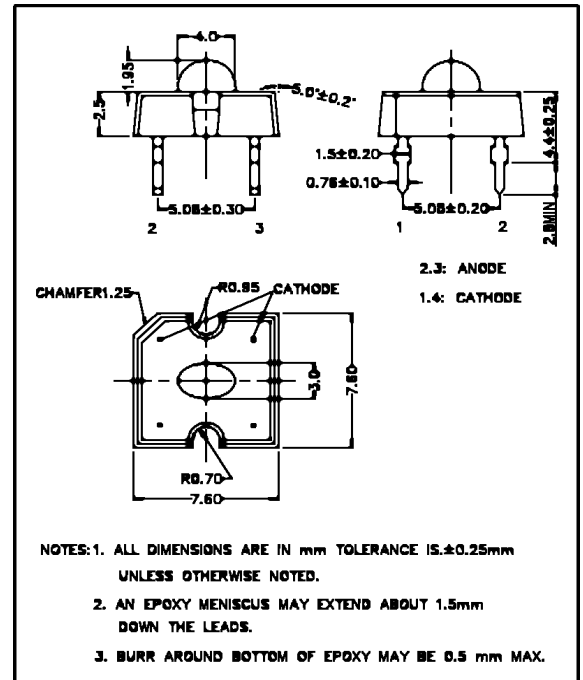
Applications

Indicators
 Illumination



ATTENTION

OBSERVE PRECAUTIONS
 ELECTROSTATIC
 SENSITIVE DEVICES



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	150.00	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	2.20	2.60	3.00	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Luminous Intensity	I _v	I _F =70mA	2130.00	4000.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	90° x 35°	-	deg.
Peak Wavelength	λ _p	I _F =70mA	-	639	-	nm
Dominant Wavelength	λ _d	I _F =70mA	-	628	-	nm
Spectral Line Half Width	Δλ	I _F =70mA	-	23	-	nm

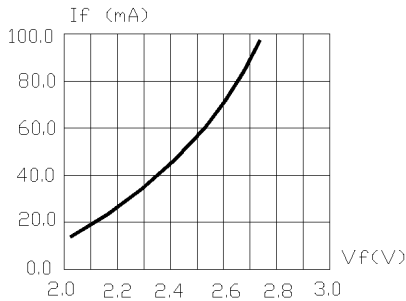


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

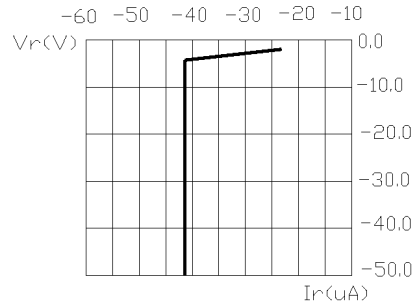


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

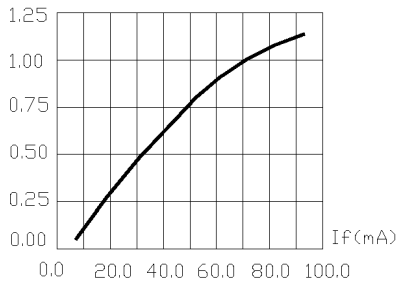


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

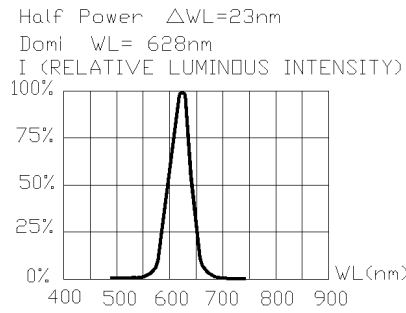


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

50% Power Angle : H-H : 90°
 V-V : 35°

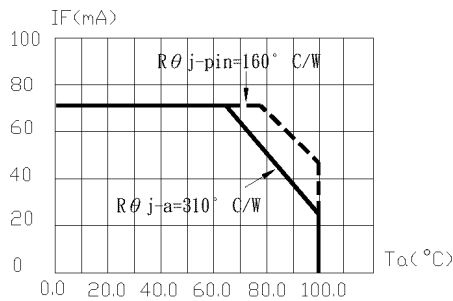


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE ($T_{jmax}=120^\circ C$)

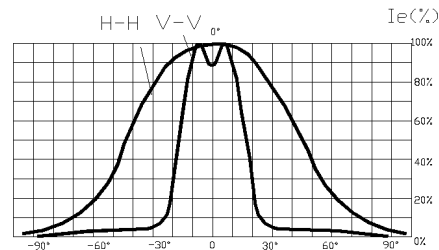


FIG.6 FAR FIELD PATTERN

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