

### LP476PPG1-90G

#### Features

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

#### Applications

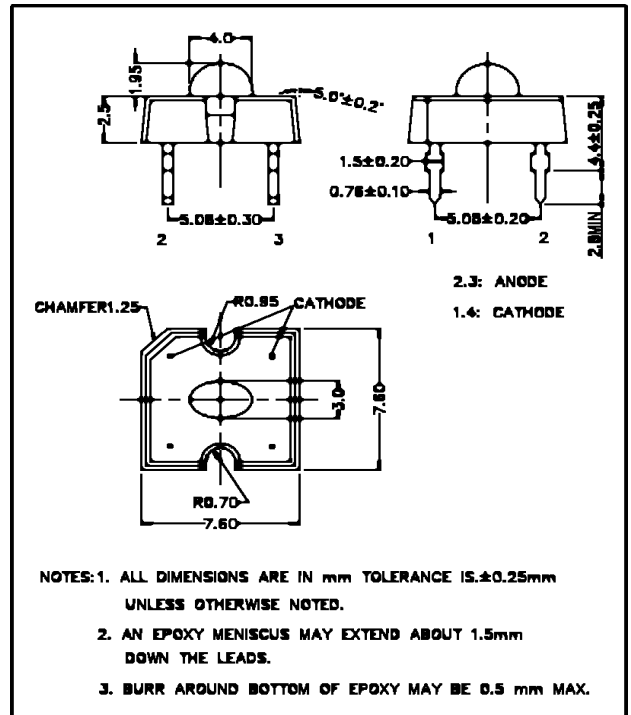
Indicators  
 Illumination

#### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	120.00	mW
Operating Temperature	T <sub>opr</sub>	-20 ~ +75	°C
Storage Temperature	T <sub>stg</sub>	-30 ~ +80	°C
Soldering Temperature	T <sub>sol</sub>	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 <sub>F</sub>	I <sub>F</sub> =30mA	3.60	4.00	4.60	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =30mA	1100.00	2300.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	90° x 35°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =30mA	-	520	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =30mA	-	525	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =30mA	-	38	-	nm



**ATTENTION**  
 OBSERVE PRECAUTIONS  
 ELECTROSTATIC  
 SENSITIVE DEVICES

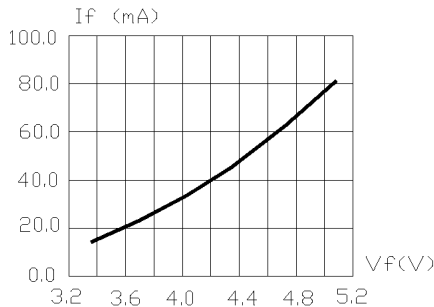


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

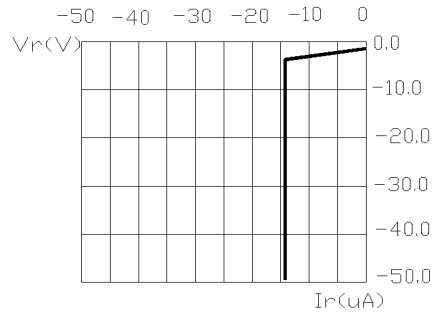


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

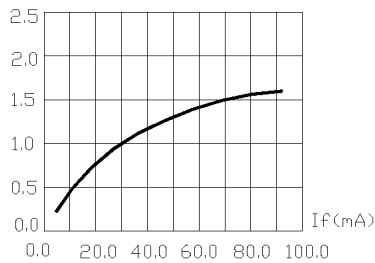


FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT.

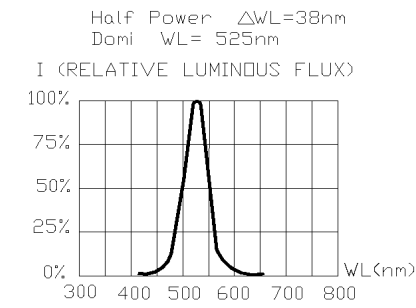


FIG.4 RELATIVE LUMINOUS FLUX VS. WAVELENGTH.

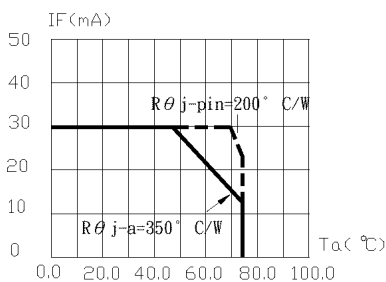


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE ( $T_{jmax}=95^{\circ}\text{C}$ )

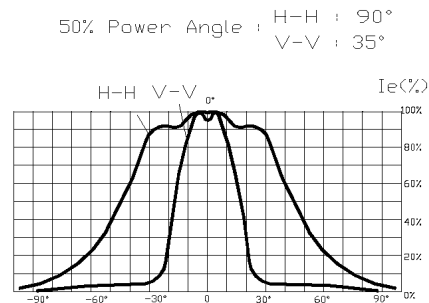


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 × 0.18 × 2inch<sup>2</sup>)
2. Height above nominal seating plane in inches(0.3inch)