

## LC503PPG1-30P-A

### Features

5mm Package  
 High Optical Power  
 High Luminous Intensity  
 Water Clear Lens  
 All Plastic Mold Type

### Applications

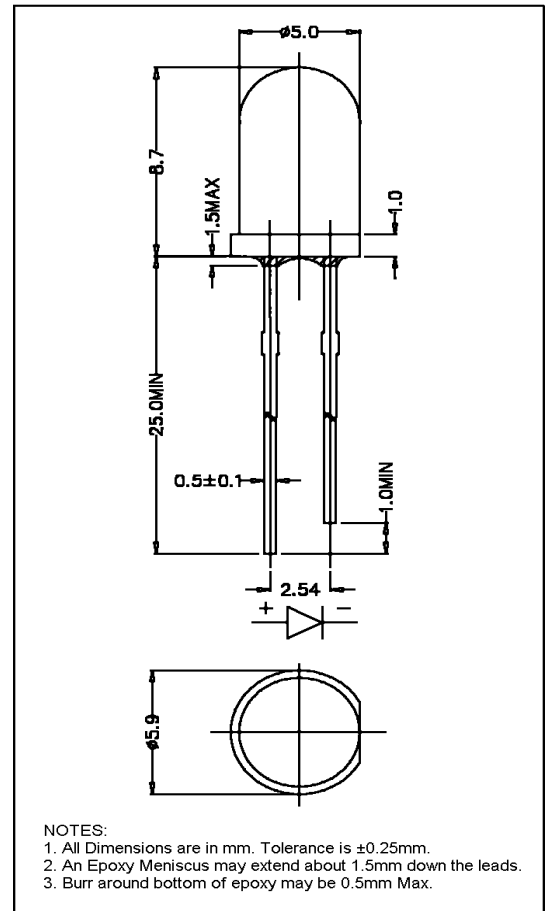
Outdoor Message Centers  
 VMS  
 Automotive Interior Lighting  
 Traffic Signals  
 Pedestrian Signals  
 Decorative Lighting

### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	25	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	105.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°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> =20mA	-	3.60	4.20	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μ A
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	3000.00	4800.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	30°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	-	520	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	-	525	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =20mA	-	38	-	nm



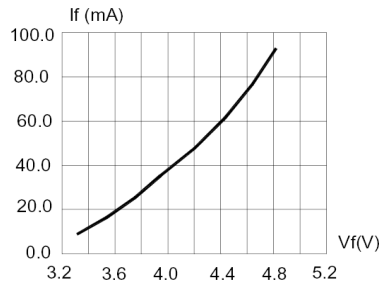


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

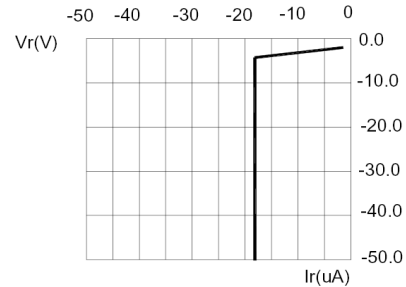


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

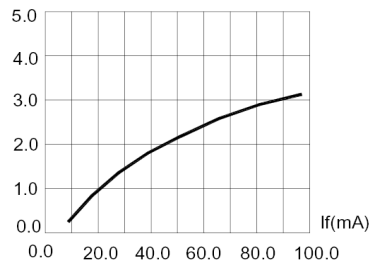


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

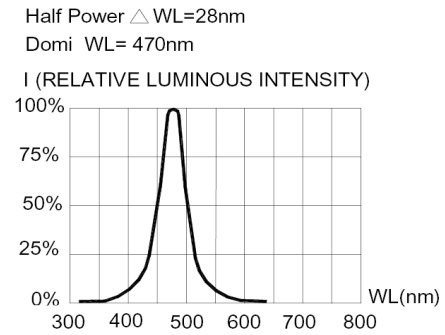


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

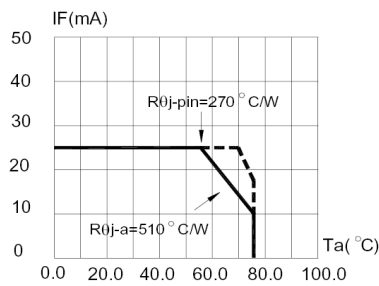


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE ( $T_{jmax}=95^{\circ} \text{C}$ )

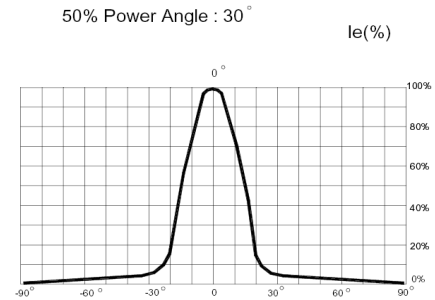


FIG.6 FAR FIELD PATTERN

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