

### LO566PBL4-70G-A

#### Features

All Plastic Mold Type  
High Luminous Intensity  
Low Current Requirement  
Tinted Diffused Lens  
Wide Viewing Angle Up To 70° x 45°  
With Stand-Offs

#### Applications

Backlighting  
Full Color/RGB Video Signs  
Time/Temperature Boards  
VMS



### ATTENTION

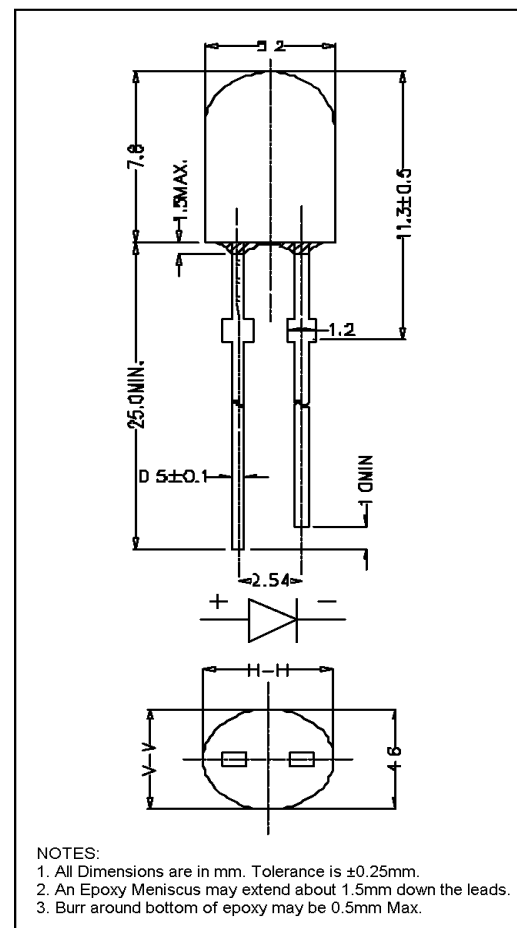
OBSERVE PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE DEVICES

#### 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 | 280.00 | 550.00    | -    | mcd  |
| Viewing Angle            | 2θ <sup>1/2</sup> | -                    | -      | 65° x 45° | -    | deg. |
| Peak Wavelength          | λ <sub>p</sub>    | I <sub>F</sub> =20mA | -      | 465       | -    | nm   |
| Dominant Wavelength      | λ <sub>d</sub>    | I <sub>F</sub> =20mA | -      | 470       | -    | nm   |
| Spectral Line Half Width | Δλ                | I <sub>F</sub> =20mA | -      | 28        | -    | nm   |



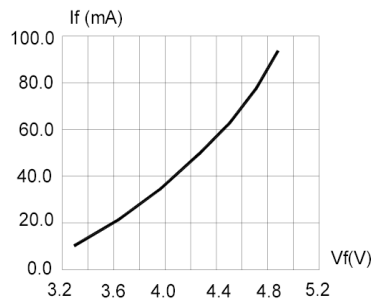


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

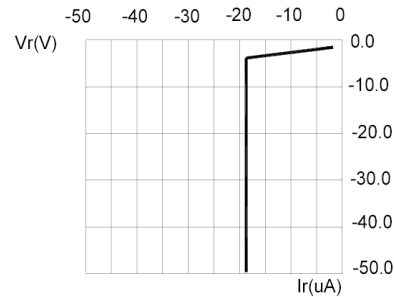


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

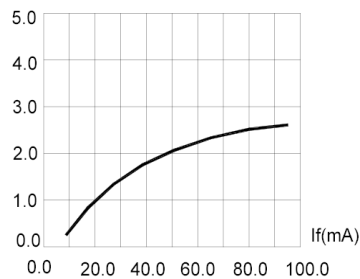


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

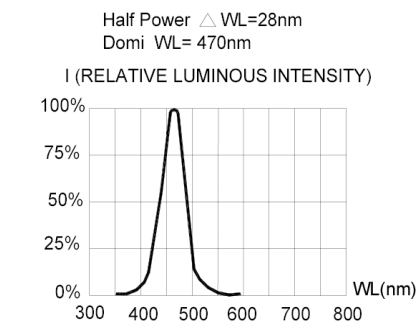


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

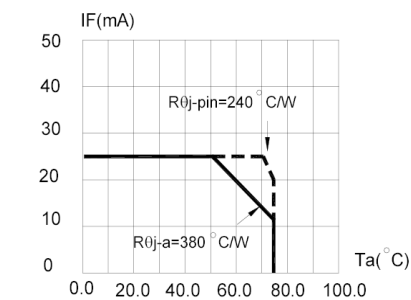


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE ( $T_{jmax}=95^{\circ}\text{C}$ )

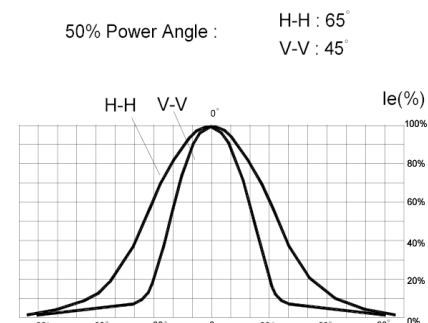


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area ( $0.18 \times 0.18\text{inch}^2$ )
2. Height above nominal seating plane in inches(0.3inch)