

LO566TWN1-70G-A1

Features

All Plastic Mold Type
 High Luminous Intensity
 Low Current Requirement
 Tinted Diffused Lens
 Wide Viewing Angle Up To 70° x 40°
 With Stand-Offs
 Lead Free

Applications

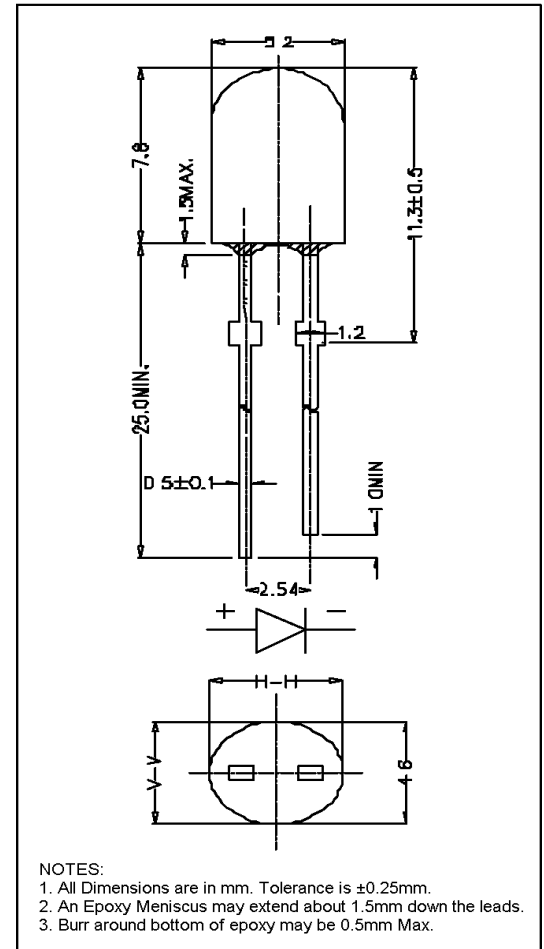
Backlighting
 Full Color/RGB Video Signs
 Time/Temperature Boards
 VMS

Maximum Ratings (Ta=25°C)

| Characteristic | Symbol | Max. | Unit |
|-----------------------|------------------|----------------|------|
| Forward Current | I _F | 25 | mA |
| Reverse Voltage | V _R | 5 | V |
| Power Dissipation | P _D | 100.00 | mW |
| Operating Temperature | T _{opr} | -40 ~ +95 | °C |
| Storage Temperature | T _{stg} | -40 ~ +100 | °C |
| Soldering Temperature | T _{sol} | 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 _F | I _F =20mA | - | 3.40 | 4.00 | V |
| Reverse Current | I _R | V _R =5V | - | - | 100 | μA |
| Luminous Intensity | I _v | I _F =20mA | 1520.00 | 2300.00 | - | mcd |
| Viewing Angle | 2θ ^{1/2} | - | - | 70° x 40° | - | deg. |
| Peak Wavelength | λ _p | I _F =20mA | - | 465 | - | nm |
| Dominant Wavelength | λ _d | I _F =20mA | - | X=.31, Y=.32 | - | nm |
| Spectral Line Half Width | Δλ | I _F =20mA | - | 0 | - | nm |



LO566TWN1-70G-A1 Graphs

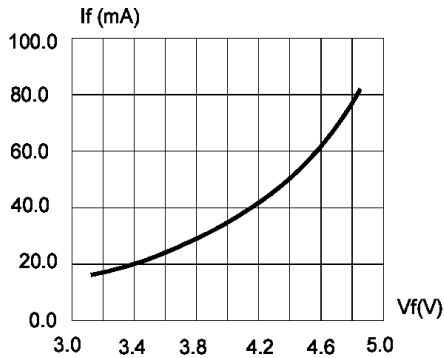


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

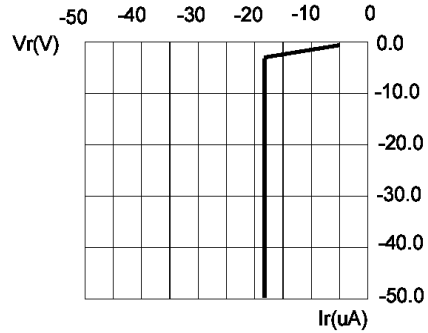


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

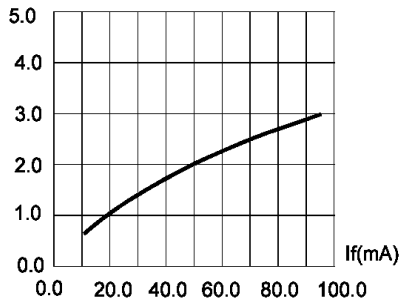


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

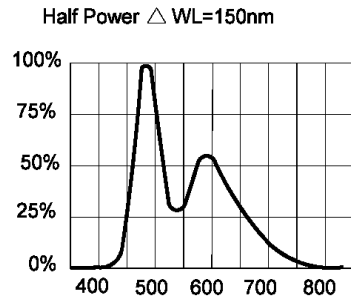


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

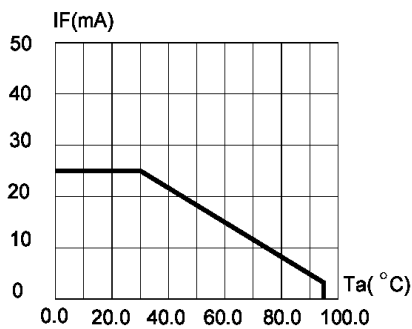


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE ($T_{jmax}=105^{\circ}$ C)

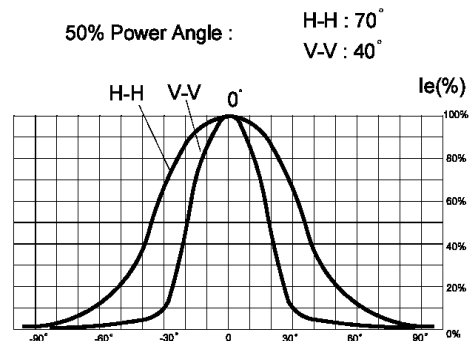


FIG.6 FAR FIELD PATTERN