

L760-66-60 epoxy lens type Infrared illuminator

L760-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency AlGaAs diode chips, mounted on a metal stem TO-66 with AlN ceramics and covered with double coated clear silicone and epoxy resin. These devices are designed for high current operation with proper heat sinking to improve thermal conductive efficiency.

◆ Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 760nm

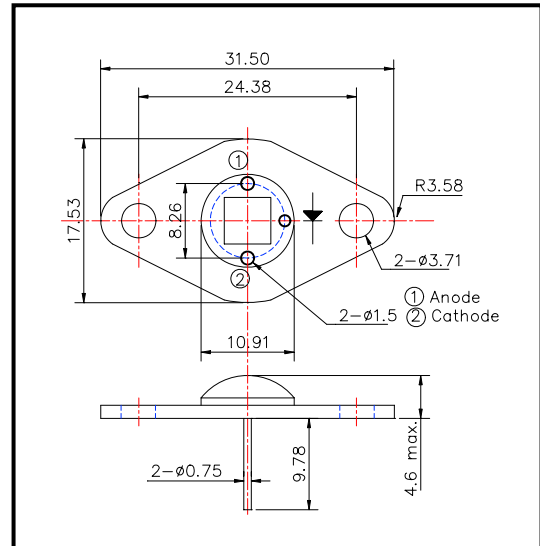
◆ Applications

- 1) For IR search light
- 2) For CCD lighting
- 3) For night vision light source

◆ Specifications

- 1) Product name IR illuminator
- 2) Spec. No. L760-66-60
- 3) Chip
 - (1) Material AlGaAs
 - (2) Peak wavelength 760m
- 4) Package
 - (1) Stem TO-66 stem with AlN
 - (2) Lens Clear silicone and epoxy lens

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temp. |
|-----------------------|--------|---------------------|------|---------------|
| Power Dissipation | PD | 7.8 | W | Ta=25°C |
| Forward Current | IF | 750 | mA | Ta=25°C |
| Pulse Forward Current | IFP | 3 | A | Ta=25°C |
| Reverse Voltage | VR | 50 | V | Ta=25°C |
| Operating Temperature | TOPR | -30 ~ +80 | °C | |
| Storage Temperature | TSTG | -30 ~ +110 | °C | |
| Soldering Temperature | TSOL | 240 | °C | |

‡Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|--------|-----------|---------|---------|---------|-------|
| Total Radiated Power | PO | IF=600mA | | 1000 | | mW |
| Total Radiated Power | PO | IF=3A | | 4000 | | mW |
| Radiant Intensity | IE | IF=600mA | | 450 | | mW/sr |
| Forward Voltage | VF | IF=600mA | | 9.0 | | V |
| Reverse Current | VR | IR=10uA | 50 | | | V |
| Peak Wavelength | λP | IF=600mA | | 760 | | nm |
| Half Width | Δλ | IF=600mA | | 30 | | nm |
| Viewing Half Angle | θ 1/2 | IF=600mA | | ±60 | | deg. |
| Rise Time | tf | IF=600mA | | 100 | | ns |
| Fall Time | tf | IF=600mA | | 100 | | ns |

‡Heat sink is required thermal resistance <8K/W