

L980-66-60 epoxy lens type Infrared illuminator

L980-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency GaAs 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 980nm

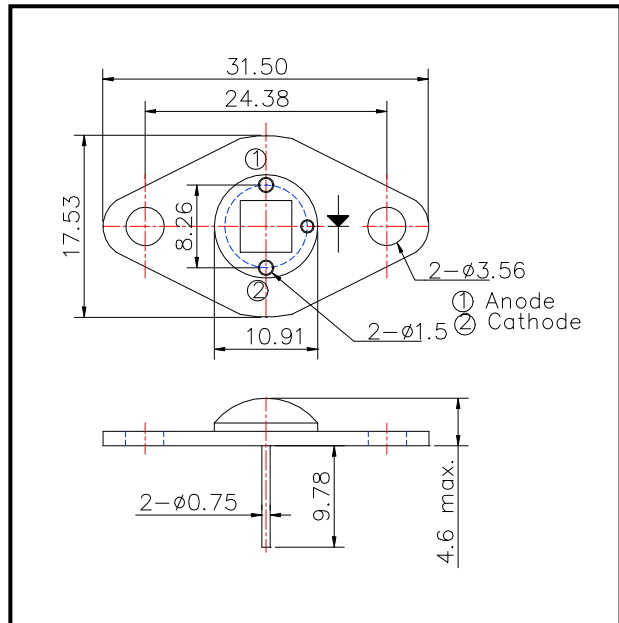
◆ Applications

- 1) For IR search light
- 2) For CCD lighting

◆ Specifications

- 1) Product name IR illuminator
- 2) Spec. No. L980-66-60
- 3) Chip
 - (1) Material GaAs
 - (2) Peak wavelength 980m
- 4) Package
 - (1) Stem TO-66 stem with AlN
 - (2) Lens Epoxy lens

◆ Outer dimension (Unit:mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|-------------------|---------------------|------|----------------------|
| Power Dissipation | P _D | 8.2 | W | T _a =25°C |
| Forward Current | I _F | 800 | mA | T _a =25°C |
| Pulse Forward Current | I _{FP} | 3 | A | T _a =25°C |
| Reverse Voltage | V _R | 30 | V | T _a =25°C |
| Junction Temperature | T _J | 100 | °C | |
| Thermal Resistance | R _{thjp} | 10 | K/W | |
| Operating Temperature | T _{OPR} | -30 ~ +80 | °C | |
| Storage Temperature | T _{STG} | -30 ~ +100 | °C | |
| Soldering Temperature | T _{SOL} | 265 | °C | |

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

‡Thermal resistance: Junction – Package, mounded on heat sink

◆ Electro-Optical Characteristics

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|--------------------|------------------|-----------------------|---------|---------|---------|-------|
| Forward Voltage | V _F | I _F =600mA | | 6.3 | | V |
| Radiated Power | P _O | I _F =600mA | | 150 | | mW |
| Radiant Intensity | I _E | I _F =600mA | | - | | mW/sr |
| Peak Wavelength | λ _P | I _F =600mA | 975 | 985 | 995 | nm |
| Half Width | Δλ | I _F =100mA | | 45 | | nm |
| Viewing Half Angle | θ _{1/2} | I _F =100mA | | ±60 | | deg. |

‡Radiated Power is measured by S3584-08.