

L970-66-60

epoxy lens type Infrared illuminator

L970-66-60 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 970nm

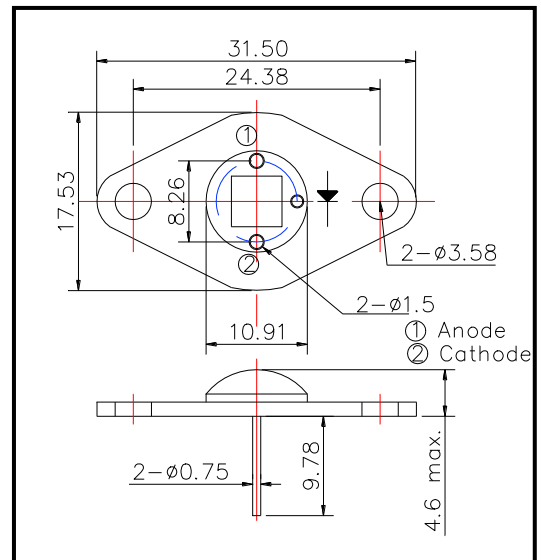
◆ Applications

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

◆ Specifications

- | | |
|---------------------|-------------------------------|
| 1) Product Name | IR illuminator |
| 2) Type No. | L970-66-60 |
| 3) Chip | |
| (1) Chip Material | GaAs |
| (2) Peak Wavelength | 965nm typ. |
| 4) Package | |
| (1) Stem | TO-66 stem with AlN |
| (2) Lens | Clear silicone and epoxy lens |

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	7.5	W
Forward Current	IF	1000	mA
Reverse Voltage	VR	50	V
Operating Temperature	TOPR	-40 ~ +80	°C
Storage Temperature	TSTG	-40 ~ +110	°C
Soldering Temperature	TSOL	240	°C

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

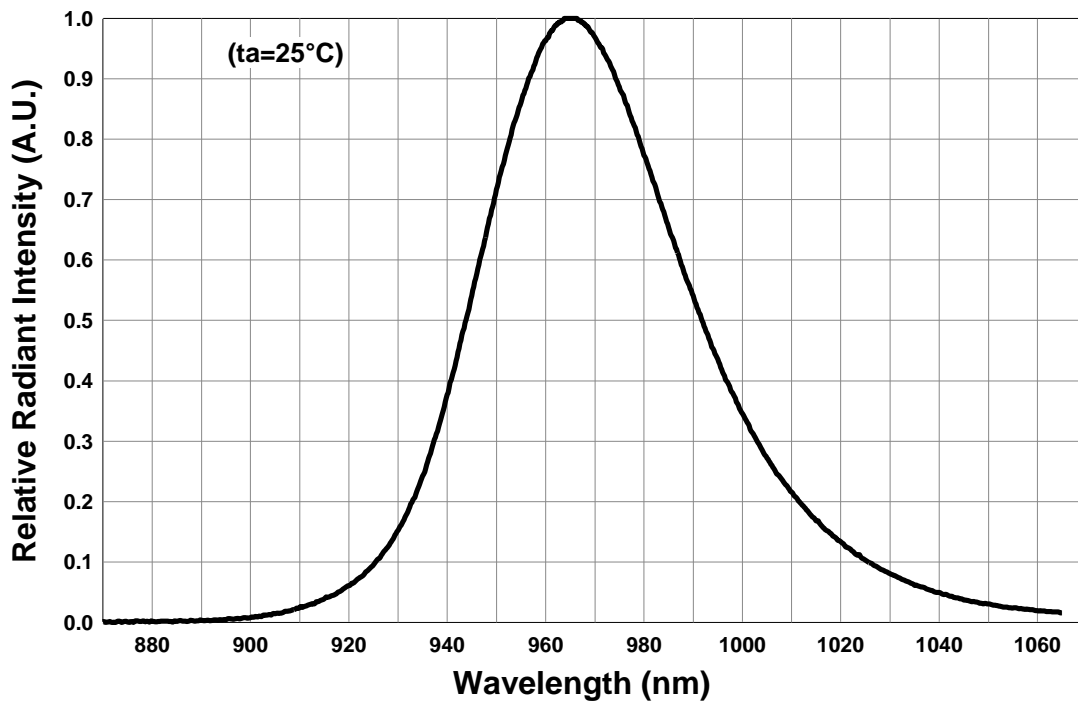
‡Soldering condition: Soldering condition must be completed within 3 seconds at 240°C

◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=800mA		7.0		V
Radiated Power	PO	IF=800mA		500		mW
Peak Wavelength	λP	IF =800mA		965		nm
Half Width	Δλ	IF =800mA		48		nm
Viewing Half Angle	θ 1/2	IF =800mA		±60		deg.

‡Radiated Power is measured by S3584-08.

Relative Spectral Emission



Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements. Product data and parameters may vary by user application and over time.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.