

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

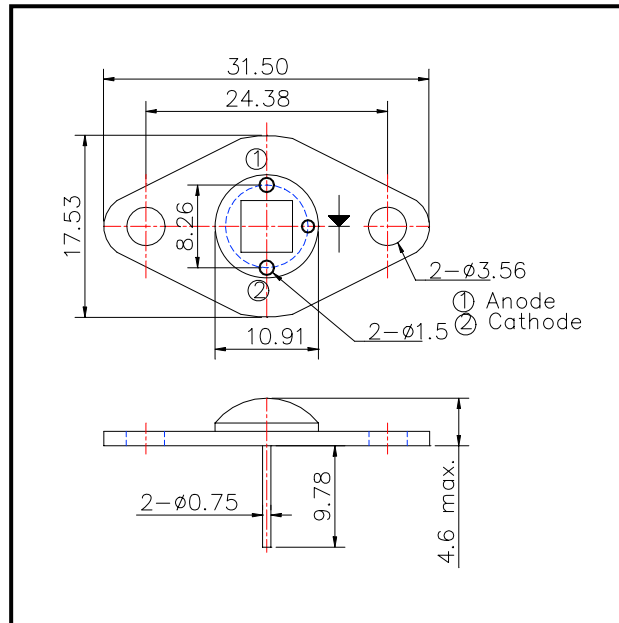
◆ Applications

- 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	$T_a=25^\circ\text{C}$
Forward Current	I_F	800	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	I_{FP}	3	A	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	30	V	$T_a=25^\circ\text{C}$
Junction Temperature	T_J	100	$^\circ\text{C}$	
Thermal Resistance	R_{thjp}	10	K/W	
Operating Temperature	T_{OPR}	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	265	$^\circ\text{C}$	

‡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	$I_F=600\text{mA}$		6.3		V
Radiated Power	P_o	$I_F=600\text{mA}$		150		mW
Radiant Intensity	I_E	$I_F=600\text{mA}$		-		mW/sr
Peak Wavelength	λ_P	$I_F=600\text{mA}$	975	985	995	nm
Half Width	$\Delta\lambda$	$I_F=100\text{mA}$		45		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=100\text{mA}$		± 60		deg.

‡Radiated Power is measured by S3584-08.

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