

L1050-66-60 epoxy lens type Infrared illuminator

L1050-66-60 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 1050nm

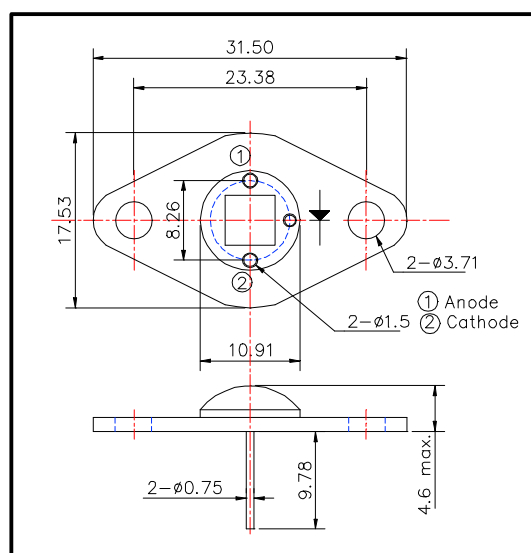
Applications

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

Specifications

- | | |
|---------------------|-------------------------------|
| 1) Product name | IR illuminator |
| 2) Spec. No. | L1050-66-60 |
| 3) Chip | |
| (1) Material | GaAs |
| (2) Peak wavelength | 1050nm |
| 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	P _D	6.0	W	T _a =25°C
Forward Current	I _F	800	mA	T _a =25°C
Reverse Voltage	V _R	50	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +110	°C	
Soldering Temperature	T _{SOL}	240	°C	

‡ 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	P _o	I _F =600mA		120		mW
Forward Voltage	V _F	I _F =600mA		7.0		V
Reverse Current	V _R	I _R =10uA	30			V
Peak Wavelength	λ _P	I _F =600mA	1000	1050	1100	nm
Half Width	Δλ	I _F =600mA		55		nm
Viewing Half Angle	Q _{1/2}	I _F =600mA		±60		deg.
Rise Time	t _r	I _F =100mA		15		ns
Fall Time	t _f	I _F =100mA		10		ns

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