

L1450-66-60 epoxy lens type Infrared illuminator

L1450-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaAsP 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 1450nm

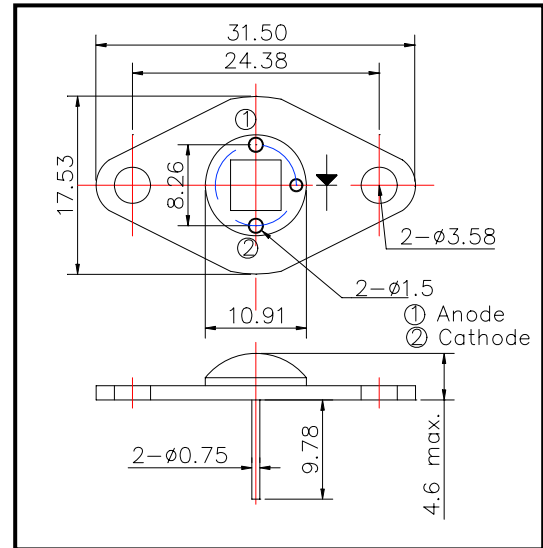
◆ Applications

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

◆ Specifications

- | | |
|---------------------|-------------------------------|
| 1) Product name | IR illuminator |
| 2) Spec. No. | L1450-66-60 |
| 3) Chip | |
| (1) Material | InGaAsP |
| (2) Peak wavelength | 1450m |
| 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	5.5	W	Ta=25°C
Forward Current	IF	800	mA	Ta=25°C
Pulse Forward Current	IFP	50	A	Ta=25°C
Reverse Voltage	VR	-30 ~ +80	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +110	°C	
Storage Temperature	TSTG	240	°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		60		mW
Forward Voltage	VF	IF=600mA		6.0		V
Reverse Current	VR	IR=10uA	30			V
Peak Wavelength	λP	IF=600mA	1400	1450	1500	nm
Half Width	Δλ	IF=600mA		100		nm
Viewing Half Angle	θ 1/2	IF=600mA		±60		deg.
Rise Time	tr	IF=100mA		15		ns
Fall Time	tf	IF=100mA		10		ns

‡Total Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742.

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

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