

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>

- High Reliability
- Compact(TO-66) Package
- High Output Power at 1050nm

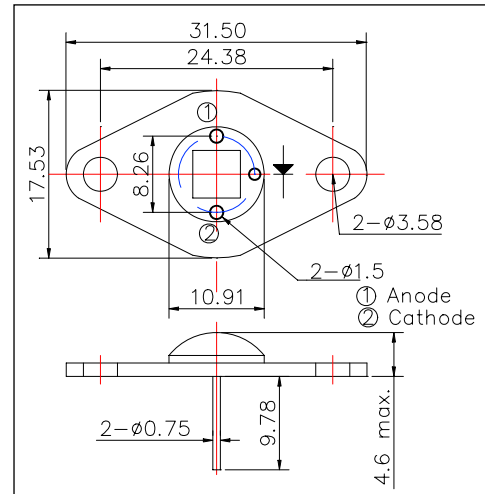
<Applications>

- For IR Search Light
- For CCD Lighting

<Specifications>

1. Product Name: IR Illuminator
2. Type Number: L1050-66-60
3. Chip:
 - Chip material: GaAs
 - Peak Wavelength: 1050nm typ.
4. Package
 - Type: TO-66 Stem with AlN
 - Lens: Clear Sillicone and Epoxy Lens

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	6.0	mW
Forward Current	IF	800	mA
Reverse Voltage	VR	50	V
Operating Temperature	TOPR	-30 ~ +80	°C
Storage Temperature	TSTG	-30 ~+110	°C
Soldering Temperature*	TSOL	240	°C

* Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power	PO	IF=600mA		120		mW
Forward Voltage	VF	IF=600mA		7.0		V
Reverse Current	VR	IR=10uA	30			V
Peak Wavelength	λP	IF=600mA	1000	1050	1100	nm
Half Width	Δλ	IF=600mA		55		nm
Viewing Half Angle	θ1/2	IF=600mA		±60		deg
Rise Time	tr	IF=100mA		15		ns
Fall Time	tf	IF=100mA		10		ns

Heat sink is required thermal resistance <8K/W

