

## L1300-66-60 Epoxy Lens Type Infrared Illuminator

L1300-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaAsP diode chips, mounted on TO-66 with AlN ceramics and covered with coated clear 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 1300nm

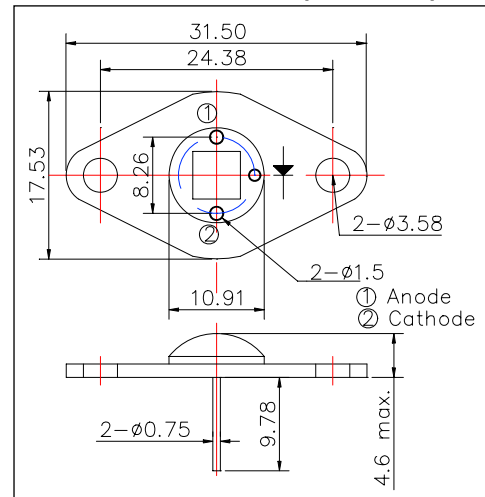
**<Applications>**

- For IR Search Light
- For CCD Lighting

**<Specifications>**

1. Product Name: IR Illuminator
2. Type Number: L1300-66-60
3. Chip:
  - Chip material: InGaAsP
  - Peak Wavelength: 1300nm typ.
4. Package
  - Type: TO-66 Stem with AlN
  - Lens: Clear Epoxy Lens

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	5.4	mW
Forward Current	IF	800	mA
Pulse Forward Current*	IFP	5	A
Thermal Resistance**	Rthja	4	K/W
Operating Temperature	TOPR	-30 ~ +80	°C
Storage Temperature	TSTG	-30 ~+110	°C
Soldering Temperature***	TSOL	265	°C

\* Duty=1% and Pulse Width=1μs

\*\* Junction-ambient air flow

\*\*\* Soldering condition must be completed within 3 second at 265°C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power*	PO	IF=600mA		140		mW
		IF=800mA		170		
Forward Voltage	VF	IF=600mA		5.0		V
		IF=800mA		5.2		
Reverse Current	VR	IR=10uA	30			V
Peak Wavelength	λP	IF=100mA		1300		nm
Half Width	Δλ	IF=100mA		80		nm
Viewing Half Angle	θ1/2	IF=100mA		±60		deg
Rise Time	tr	IF=100mA		15		ns
Fall Time	tf	IF=100mA		10		ns

\* Measured by G8370-85

Heat sink is required thermal resistance <2K/W

