

# L940-66-60 epoxy lens type Infrared illuminator

L940-66-60 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 940nm

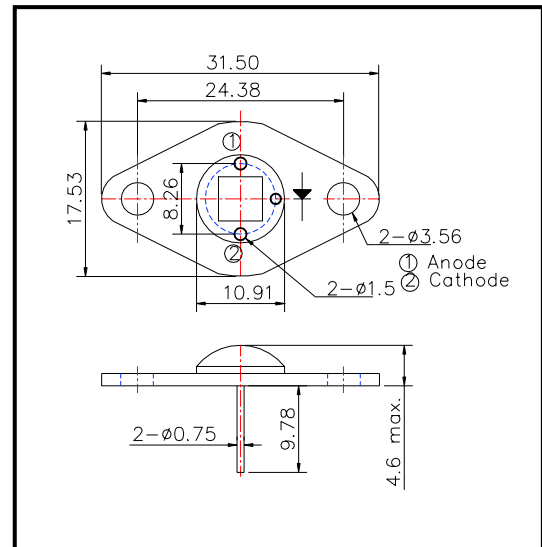
## ◆ Applications

- 1) For IR search light
- 2) For CCD lighting
- 3) For night vision light source

## ◆ Specifications

- 1) Product name IR illuminator
- 2) Spec. No. L940-66-60
- 3) Chip
  - (1) Material GaAs
  - (2) Peak wavelength 940nm
- 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 Temperature
Power Dissipation	P <sub>D</sub>	7.5	W	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	1.0	A	T <sub>a</sub> =25°C
Pulse Forward Current	I <sub>FP</sub>	5	A	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	50	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	240	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡Soldering condition : Soldering condition must be completed within 3 seconds at 260

## ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =800mA		1000		mW
Total Radiated Power	P <sub>O</sub>	I <sub>FP</sub> =5A		6500		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =800mA		350		mW/sr
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =800mA		7.1		V
Reverse Current	V <sub>R</sub>	I <sub>R</sub> =10uA	50			V
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =800mA	930	940	955	nm
Half Width	Δλ	I <sub>F</sub> =800mA		40		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =800mA		±60		deg.

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