

## L940-66-60-550 Glass ball lens cap type Infrared illuminator

L940-66-60-550 is an extremely high beam and 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 sealed with glass ball lens cap. 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 radiant intensity at 940nm

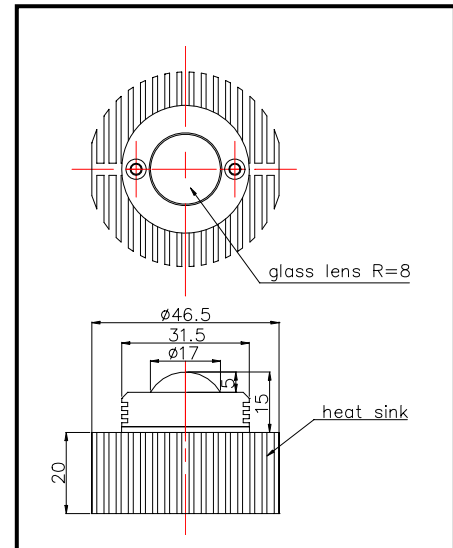
### ◆ Applications

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

### ◆ Specifications

- 1) Product name           IR illuminator
- 2) Spec. No.               L940-66-60-550
- 3) Chip
  - (1) Material               GaAs
  - (2) Peak wavelength     940m
- 4) Package
  - (1) Stem                   TO-66 stem with AlN
  - (2) Lens                   Glass ball lens

### ◆ Outer dimension(Unit:mm)



### ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	7.5	W	Ta=25°C
Forward Current	IF	1.0	A	Ta=25°C
Pulse Forward Current	IFP	5	A	Ta=25°C
Reverse Voltage	VR	50	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +80	°C	
Storage Temperature	TSTG	-30 ~ +100	°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=800mA		700		mW
Total Radiated Power	PO	IF=5A		4000		mW
Radiant Intensity	IE	IF=800mA		400		mW/sr
Forward Voltage	VF	IF=800mA		7.1		V
Reverse Current	VR	IR=10uA	50			V
Peak Wavelength	λP	IF=800mA	930	940	955	nm
Half Width	Δλ	IF=800mA		40		nm
Viewing Half Angle	θ 1/2	IF=800mA		±25		deg.

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