

L740-66-60 epoxy lens type Infrared illuminator

L740-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency AlGaAs 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 radiant intensity at 740nm

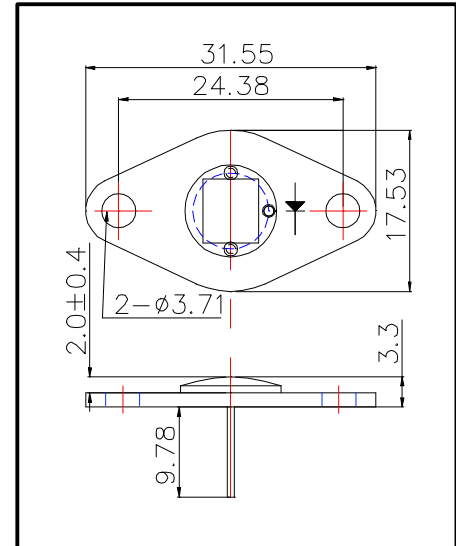
Applications

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

Specifications

- 1) Product name IR illuminator
- 2) Spec. No. L740-66-60
- 3) Chip
 - (1) Material AlGaAs
 - (2) Peak wavelength 740nm
- 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	P _D	7.8	W	T _a =25°C
Forward Current	I _F	750	mA	T _a =25°C
Pulse Forward Current	I _{FP}	3	A	T _a =25°C
Reverse Voltage	V _R	50	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +110	°C	
Soldering Temperature	T _{SOL}	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	P _O	I _F =600mA		1000		mW
Total Radiated Power	P _O	I _F =3A		4000		mW
Radiant Intensity	I _E	I _F =600mA		450		mW/sr
Forward Voltage	V _F	I _F =600mA		9.0		V
Reverse Current	V _R	I _R =10uA	50			V
Peak Wavelength	λ _P	I _F =600mA		740		nm
Half Width	Δλ	I _F =600mA		30		nm
Viewing Half Angle	Q _{1/2}	I _F =600mA		±60		deg.
Rise Time	t _r	I _F =600mA		100		ns
Fall Time	t _f	I _F =600mA		100		ns

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