

L680-66-30 epoxy lens type Infrared illuminator

L680-66-30 is a wide viewing and extremely high output power illuminator assembled with a total of 30 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 output power at 680nm

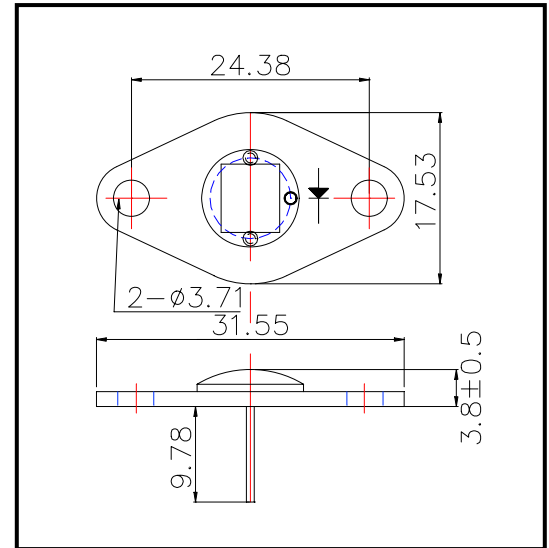
◆ Applications

- 1) For high intensity lighting source

◆ Specifications

- 1) Product name IR illuminator
- 2) Spec. No. L680-66-30
- 3) Chip
 - (1) Material GaAs
 - (2) Peak wavelength 680m
- 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	2.0	W	T _a =25°C
Forward Current	I _F	200	mA	T _a =25°C
Pulse Forward Current	I _{FP}	1000	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 =120mA		150		mW
Forward Voltage	V _F	I _F =120mA		10.0		V
Reverse Current	V _R	I _R =10uA	50			V
Peak Wavelength	λ _P	I _F =120mA	660	680	700	nm
Half Width	Δλ	I _F =120mA		20		nm
Viewing Half Angle	θ _{1/2}	I _F =120mA		±60		deg.

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