

# LED700-66-60 Epoxy Lens type Infrared Illuminator

LED700-66-60 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 output power at 700 nm

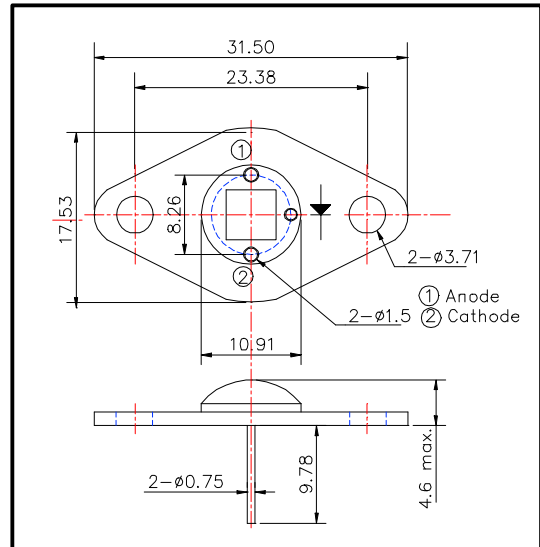
## Applications

- 1) For high intensity lighting source

## Specifications

- |                     |                       |
|---------------------|-----------------------|
| 1) Product name     | Red color illuminator |
| 2) Spec. No.        | LED700-66-60          |
| 3) Chip             |                       |
| (1) Material        | AlGaAs                |
| (2) Peak wavelength |                       |
| (1) Stem            | TO-66 stem with AlN   |
| (2) Lens            | Clear epoxy lens      |

Outer dimension (Unit: mm)



## Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	$P_D$	4.0	W	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	400	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	$I_{FP}$	2	A	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	50	V	$T_a=25^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +110	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	240	$^\circ\text{C}$	

‡ Pulse Forward Current condition: Duty = 1% and Pulse Width = 1  $\mu\text{s}$ .

‡ Soldering condition: Soldering condition must be completed within 3 seconds at  $260^\circ\text{C}$

## Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power	$P_O$	$I_F=240\text{mA}$		500		mW
Forward Voltage	$V_F$	$I_F=240\text{mA}$		9.8		V
Reverse Current	$V_R$	$I_R=10\mu\text{A}$	50			V
Peak Wavelength	$\lambda_P$	$I_F=240\text{mA}$	680	700	720	nm
Half Width	$\Delta\lambda$	$I_F=240\text{mA}$		20		nm
Viewing Half Angle	$Q_{1/2}$	$I_F=240\text{mA}$		$\pm 60$		deg.