

## L450-66-60 epoxy lens type BLUE color illuminator

L450-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaN 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 450nm

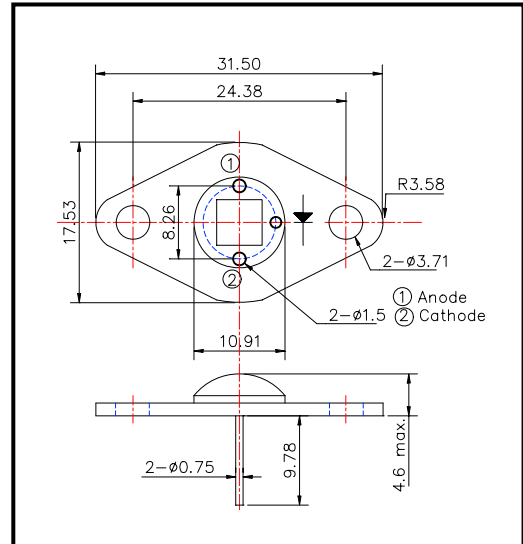
### Applications

- 1) For high intensity lighting source

### Specifications

- |                     |                               |
|---------------------|-------------------------------|
| 1) Product name     | Blue color illuminator        |
| 2) Spec. No.        | L450-66-60                    |
| 3) Chip             |                               |
| (1) Material        | InGaN                         |
| (2) Peak wavelength | 450m                          |
| 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 <sub>D</sub>	8.0	W	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	400	mA	T <sub>a</sub> =25°C
Pulse Forward Current	I <sub>FP</sub>	2000	mA	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 ~ +110	°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°C

### Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =240mA		18.0		V
Brightness	I <sub>v</sub>	I <sub>F</sub> =240mA		450		mcd
Total Radiated Power	P <sub>o</sub>	I <sub>F</sub> =240mA		40		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =240mA		20		mW/sr
Reverse Current	V <sub>R</sub>	I <sub>R</sub> =10uA	50			V
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =240mA	440	450	460	nm
Half Width	Δλ	I <sub>F</sub> =240mA		30		nm
Viewing Half Angle	Q1/2	I <sub>F</sub> =240mA		±60		deg.

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