

PRELIMINARY

# LED395-66-60-110 Flat Lens Type UV Light Illuminator

LED395-66-60-110 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaN UV diode chips, mounted on a metal stem TO-66 and covered with Flat Glass Cap.

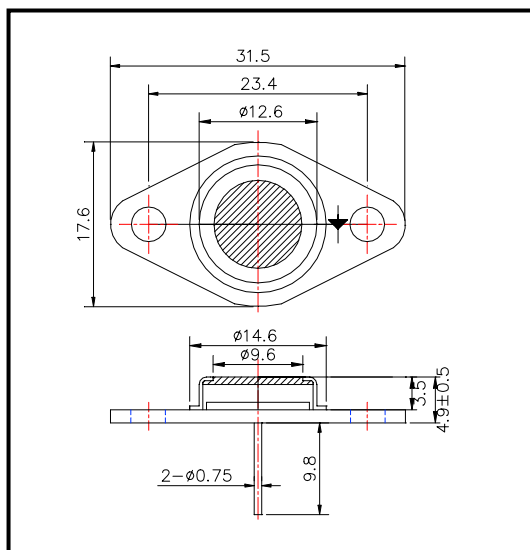
### ◆ Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 395 nm

### ◆ Specifications

- |                     |                      |
|---------------------|----------------------|
| 1) Product name     | UV Light Illuminator |
| 2) Spec. No.        | LED395-66-60-110     |
| 3) Chip             |                      |
| (1) Material        | InGaN                |
| (2) Peak wavelength | 395 nm               |
| 4) Package          |                      |
| (1) Stem            | TO-66 stem           |
| (2) Lens            | Flat Glass cap       |

### ◆ Outer dimension • Unit:mm •



### ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	6.0	W	T <sub>a</sub> = 25 °C
Forward Current	I <sub>F</sub>	300	mA	T <sub>a</sub> = 25 °C
Pulse Forward Current	I <sub>FP</sub>	500	mA	T <sub>a</sub> = 25 °C
Reverse Voltage	V <sub>R</sub>	30	V	T <sub>a</sub> = 25 °C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	240	°C	

‡Pulse Forward Current condition: Duty = 1% and Pulse Width = 1 μs.

‡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> = 240 mA		18.0		V
Brightness	I <sub>V</sub>	I <sub>F</sub> = 240 mA		90		mcd
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> = 240 mA		240		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> = 240 mA		---		mW/sr
Reverse Current	V <sub>R</sub>	I <sub>R</sub> = 10 μA	30			V
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 240 mA	385	395	405	nm
Half Width	Δλ	I <sub>F</sub> = 240 mA		15		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> = 240 mA		±55		deg.

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