

LED395-66-60 epoxy lens type ultraviolet illuminator

LED395-66-60 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 395 nm

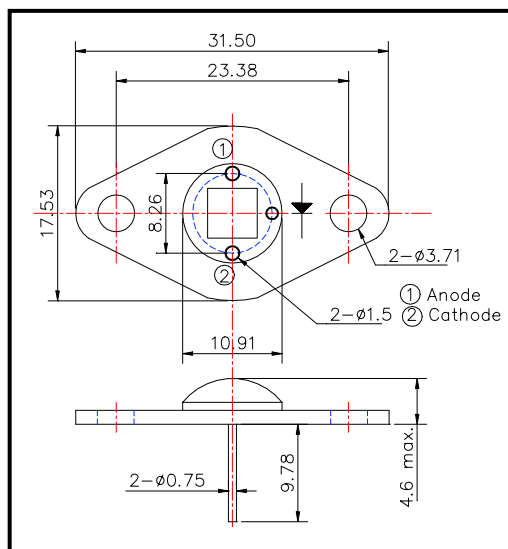
◆ Applications

- 1) high intensity lighting source

◆ Specifications

- | | |
|---------------------|-------------------------------|
| 1) Product name | ultraviolet illuminator |
| 2) Spec. No. | LED395-66-60 |
| 3) Chip | |
| (1) Material | GaN |
| (2) Peak wavelength | 395 nm |
| 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	4.5	W	T _a = 25 °C
Forward Current	I _F	360	mA	T _a = 25 °C
Pulse Forward Current	I _{FP}	600	mA	T _a = 25 °C
Reverse Voltage	V _R	25	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 = 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
Brightness	I _v	I _F = 240 mA		---		cd
Luminous Flux	Φ _v	I _F = 240 mA		---		lm
Total Radiated Power	P _O	I _F = 240 mA		300		mW
Forward Voltage	V _F	I _F = 240 mA		18.0		V
Reverse Current	V _R	I _R = 10 uA	50			V
Peak Wavelength	λ _P	I _F = 240 mA	390	395	400	nm
Half Width	Δλ	I _F = 240 mA		20		nm
Viewing Half Angle	θ _{1/2}	I _F = 240 mA		±60		deg

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

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