

PRELIMINARY

LED370-66-60-110 Flat Lens Type UV Light Illuminator

LED370-66-60-110 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.

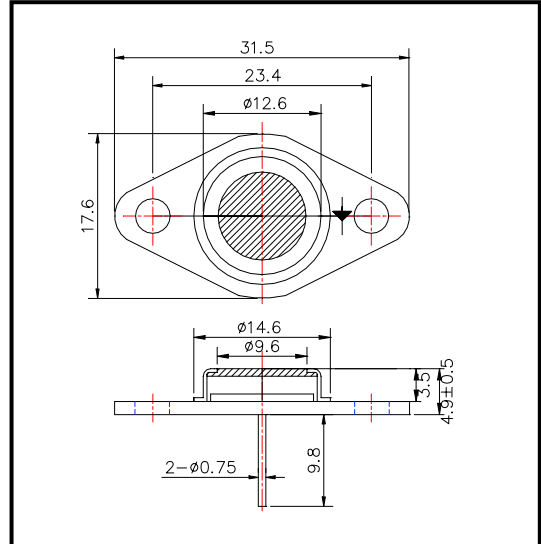
◆ Features

- (1) High reliability
- (2) Compact (TO-66) package
- (3) High output power at 370 nm

◆ Specifications

- (1) Product name UV illuminator
- (2) Spec. No. LED370-66-60-110
- (3) Chip
 - (1) Material InGaN
 - (2) Peak wavelength 370 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 _D	5.5	W	T _a = 25 °C
Forward Current	I _F	300	mA	T _a = 25 °C
Pulse Forward Current	I _{FP}	-	mA	T _a = 25 °C
Reverse Voltage	V _R	20	V	T _a = 25 °C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°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
Forward Voltage	V _F	I _F = 200 mA		18.0		V
Brightness	I _V	I _F = 200 mA		17.5		mcd
Total Radiated Power	P _O	I _F = 200 mA		20		mW
Radiant Intensity	I _E	I _F = 200 mA		3		mW/sr
Reverse Current	V _R	I _R = 10 μA	20			V
Peak Wavelength	λ _P	I _F = 200 mA	360	370	380	nm
Half Width	Δλ	I _F = 200 mA		20		nm
Viewing Half Angle	θ _{1/2}	I _F = 200 mA		±60		deg.

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

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