

L375-66-60-110

Flat Lens Type UV Light Illuminator

L375-66-60-110 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.

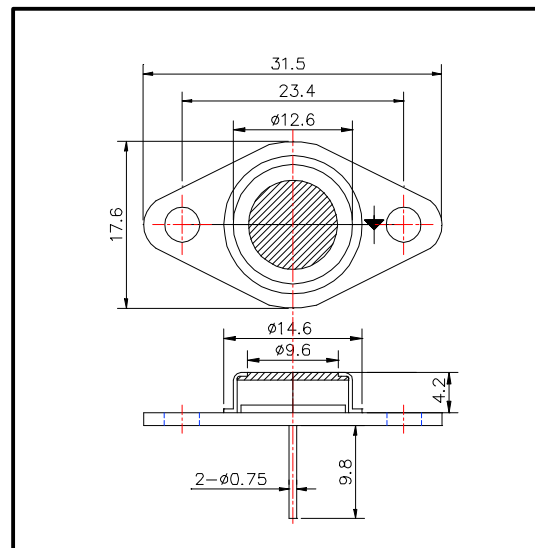
Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 375nm

Specifications

- | | |
|---------------------|----------------------|
| 1) Product name | UV Light Illuminator |
| 2) Spec. No. | L375-66-60-110 |
| 3) Chip | |
| (1) Material | InGaN |
| (2) Peak wavelength | 375nm |
| 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	5.0	W	$T_a=25^{\circ}\text{C}$
Forward Current	I_F	300	mA	$T_a=25^{\circ}\text{C}$
Pulse Forward Current	I_{FP}	-	mA	$T_a=25^{\circ}\text{C}$
Reverse Voltage	V_R	20	V	$T_a=25^{\circ}\text{C}$
Operating Temperature	T_{OPR}	$-30 \sim +80$	$^{\circ}\text{C}$	
Storage Temperature	T_{STG}	$-30 \sim +100$	$^{\circ}\text{C}$	
Soldering Temperature	T_{SOL}	240	$^{\circ}\text{C}$	

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=1 μ 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
Forward Voltage	V_F	$I_F=200\text{mA}$		17.0		V
Brightness	I_V	$I_F=200\text{mA}$		-		mcd
Total Radiated Power	P_O	$I_F=200\text{mA}$		150		mW
Radiant Intensity	I_E	$I_F=200\text{mA}$		-		mW/sr
Reverse Current	V_R	$I_R=10\mu\text{A}$	20			V
Peak Wavelength	λ_P	$I_F=200\text{mA}$	365	375	385	nm
Half Width	$\Delta\lambda$	$I_F=200\text{mA}$		17		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=200\text{mA}$		± 55		deg.

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