

## 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.

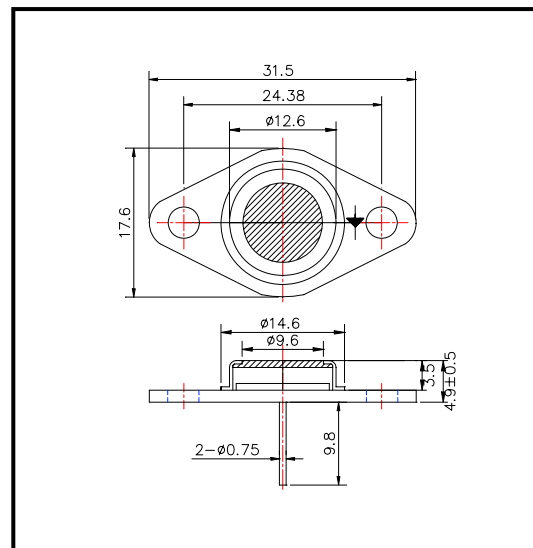
### ◆ Features

- 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 ~ +80	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	240	$^\circ\text{C}$	

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

‡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	$\lambda_P$	$I_F=200\text{mA}$	365	375	385	nm
Half Width	$\Delta\lambda$	$I_F=200\text{mA}$		17		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=200\text{mA}$		$\pm 55$		deg.

‡Heat sink is required thermal resistance  $<8\text{K/W}$