

LW47-66-60-110

Flat Lens Type White Color Light Illuminator

LW47-66-60-110 is a wide viewing and extremely high bright and output power illuminator assembled with a total of 60 high efficiency InGaN blue color diode chips, mounted on a metal stem TO-66 and covered with Flat Glass Cap.

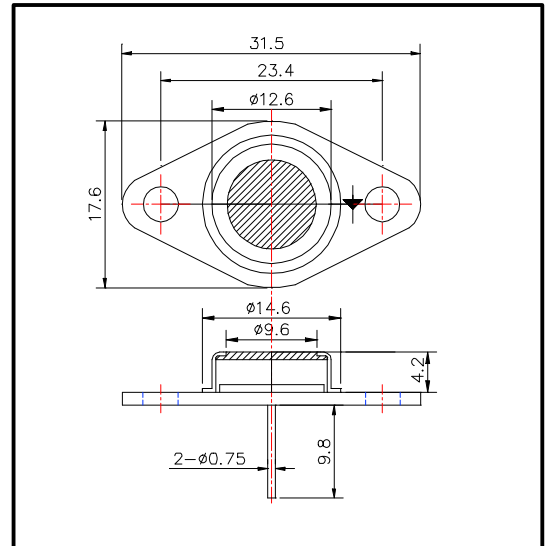
Features

- 1) High Brightness
- 2) Compact (TO-66) package

Specifications

- 1) Product name White Color Light Illuminator
- 2) Spec. No. LW47-66-60-110
- 3) Chip
 - (1) Material InGaN
 - (2) Peak wavelength White Color
- 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	8.5	W	$T_a=25^{\circ}\text{C}$
Forward Current	I_F	400	mA	$T_a=25^{\circ}\text{C}$
Pulse Forward Current	I_{FP}	2000	mA	$T_a=25^{\circ}\text{C}$
Reverse Voltage	V_R	30	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=1us.

‡ 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	$I_F=240\text{mA}$		19.0		V
Brightness	I_V	$I_F=240\text{mA}$		13		cd
Total Radiated Power	P_O	$I_F=240\text{mA}$		60		mW
Radiant Intensity	I_E	$I_F=240\text{mA}$		35		mW/sr
Reverse Current	V_R	$I_R=10\mu\text{A}$	50			V
Peak Wavelength	λ_P	$I_F=240\text{mA}$		*1		nm
Half Width	$\Delta\lambda$	$I_F=240\text{mA}$		-		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=240\text{mA}$		± 55		deg.

*1 x: $2.3 \pm 0.3 \times 10^{-1}$, y: $2.2 \pm 0.3 \times 10^{-1}$

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