

L405-66-16100-110

Flat Lens Type UV Light Illuminator

L405-66-16100-110 is composed of 1mm*1mm high current drive InGaN die by 16pcs and mounted on a metal stem TO-66 and covered with Flat Glass Cap. It is designed for extremely high output power illuminator assembled.

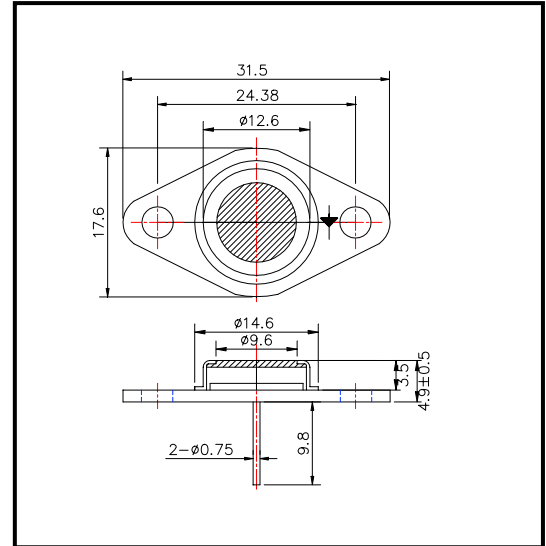
◆Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 405nm

◆ Specifications

- 1) Product name UV Light Illuminator
- 2) Spec. No. L405-66-16100-110
- 3) Chip
 - (1) Material InGaN
 - (2) Peak wavelength 405nm
- 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	25	W	T _a =25°C
Forward Current	I _F	1500	mA	T _a =25°C
Reverse Voltage	V _R	30	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	265	°C	

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

‡Soldering condition : Soldering condition must be completed within 3 seconds at 265°C

◆Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =1A		13.8		V
Radiated Power	P _O	I _F =1A		1.5		W
Brightness	I _V	I _F =1A		240		mcd
Radiant Intensity	I _E	I _F =1A		320		mW/sr
Reverse Current	V _R	I _R =10uA	30			V
Peak Wavelength	λ _P	I _F =100mA	395	405	415	nm
Half Width	Δλ	I _F =100mA		15		nm
Viewing Half Angle	θ 1/2	I _F =100mA		±60		deg.

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

‡Radiated Power is measured by S3584-08.

‡Brightness is measured by Tektronix J-16.

‡Radiant Intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741