

**PRELIMINARY**

Lead (Pb) Free Product RoHS compliant

# L405-66-60-550

UV LED illuminator with Glass ball lens cap and heat sink

L405-66-60-550 is an extremely high beam and output power illuminator assembled with a total of 60 high efficiency InGaN UV diode chips, mounted on a metal stem TO-66 and sealed with glass ball lens cap and with heat sink for high current use.

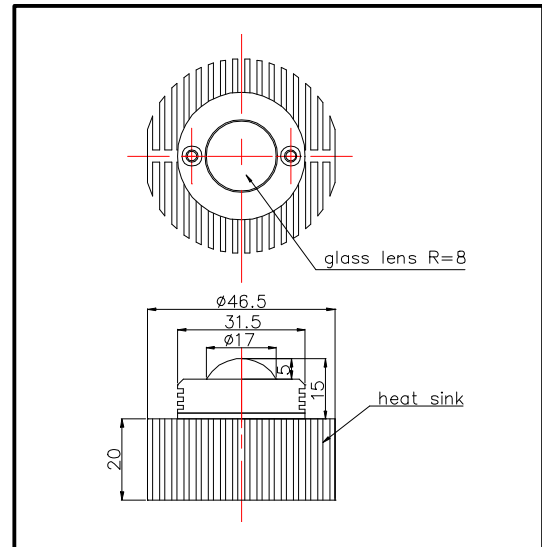
**Features**

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

**Specifications**

- |                     |                      |
|---------------------|----------------------|
| 1) Product name     | UV Light Illuminator |
| 2) Spec. No.        | L405-66-60-550       |
| 3) Chip             |                      |
| (1) Material        | InGaN                |
| (2) Peak wavelength | 405nm                |
| 4) Package          |                      |
| (1) Stem            | TO-66 stem           |
| (2) Lens            | Glass ball lens      |
| (3) Heat sink       | Aluminum             |

Outer dimension (Unit: mm)


**Absolute Maximum Ratings**

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	6.0	W	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	300	mA	T <sub>a</sub> =25°C
Pulse Forward Current	I <sub>FP</sub>	500	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	30	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	240	°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 <sub>F</sub>	I <sub>F</sub> =240mA		18.0		V
Brightness	I <sub>V</sub>	I <sub>F</sub> =240mA		70		mcd
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =240mA		300		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =240mA		-		mW/sr
Reverse Current	V <sub>R</sub>	I <sub>R</sub> =10uA	30			V
Peak Wavelength	I <sub>P</sub>	I <sub>F</sub> =240mA	395	405	415	nm
Half Width	DI	I <sub>F</sub> =240mA		15		nm
Viewing Half Angle	Q <sub>1/2</sub>	I <sub>F</sub> =240mA		±20		deg.

‡ Heat sink is required thermal resistance &lt;8K/W

‡ Brightness is measured by Tektronix J-16.

‡ Radiated Power is measured by Ando Optical Multi Meter AQ2140 &amp; AQ2741