

## L405R-04 UV LED Lamp with UV resistant resin

L405R-03 is an InGaN LED mounted on a lead frame with UV resistant resin.

On forward bias, it emits a band of visible light that peaks 405nm.

This UV series is designed for long life under UV beam.

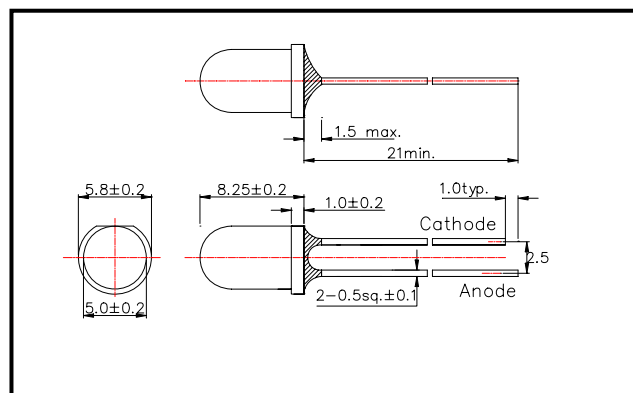
### ◆ Features

- 1) High reliable for long life under UV beam.
- 2) High output power at 405nm

### ◆ Specifications

- 1) Product Name           UV LED Lamp
- 2) Type No.                L405R-04
- 3) Chip
  - (1) Chip Material        InGaN
  - (2) Peak Wavelength   405nm typ.
- 4) Package
  - (1) Type                 Φ5mm clear molding
  - (2) Resin Material       UV Resin
  - (3) Lead Frame         Soldered (Lead Free)

### ◆ Outer dimension (Unit: mm)



### ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	120	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	30	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +85	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	260	°C	

‡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> =20mA		3.8	4.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		10.0		mW
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA		12		mW/sr
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	395	405	415	nm
Half Width	Δλ	I <sub>F</sub> =20mA		15		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±20		deg.

‡Total Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2741.

‡Ando Optical Multi Meter AQ2140 is setted at 405nm range.

‡Radiant Intensity is measured by Epitex's designed and AQ2140 & AQ2741