

# 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.

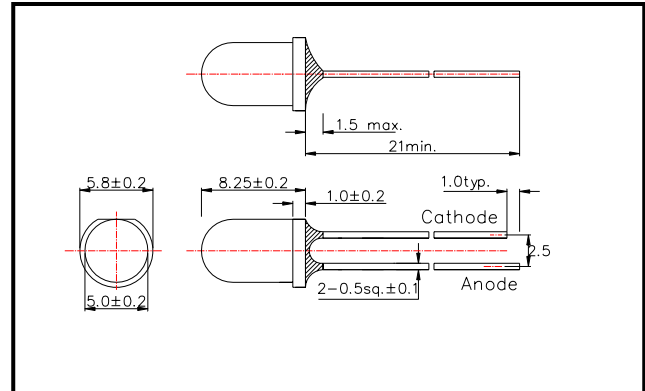
### ◆ Features

- 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	$P_D$	120	mW	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	30	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	5	V	$T_a=25^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-30 ~ +85	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	260	$^\circ\text{C}$	

‡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	$V_F$	$I_F=20\text{mA}$		3.8	4.3	V
Reverse Current	$I_R$	$V_R=5\text{V}$			10	$\mu\text{A}$
Total Radiated Power	$P_O$	$I_F=20\text{mA}$		10.0		mW
Brightness	$I_V$	$I_F=20\text{mA}$		12		mW/sr
Peak Wavelength	$\lambda_P$	$I_F=20\text{mA}$	395	405	415	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		15		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		±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