

# L415R-04 UV LED Lamp with UV resistant resin

L415R-04 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 415nm.  
 This UV series is designed for long life under UV beam.

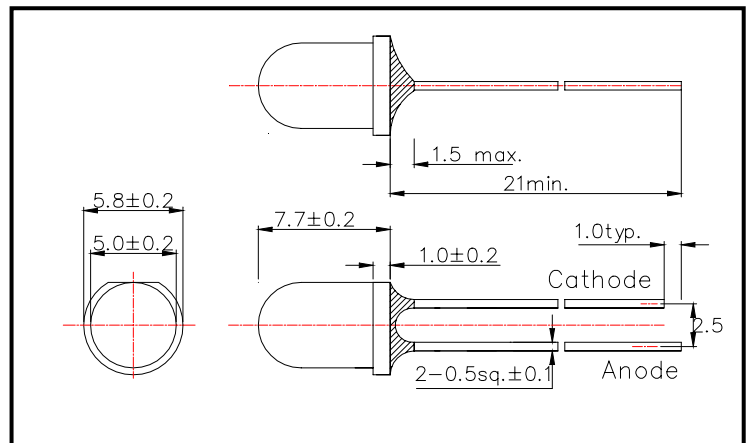
### ◆ Features

- 1) High reliable for long life under UV beam.
- 2) High output power at 415nm

### ◆ Specifications

- 1) Product Name UV LED Lamp
- 2) Type No. L415R-04
- 3) Chip
  - (1) Chip Material InGaN
  - (2) Peak Wavelength 415nm 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	$P_D$	110	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	$T_{OPR}$	$-30 \sim +85$	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	$-30 \sim +100$	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	260	$^\circ\text{C}$	

‡Soldering condition: Soldering condition must be completed within 5 seconds at  $265^\circ\text{C}$

### ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$		3.4	4.3	V
Reverse Current	$I_R$	$V_R = 5\text{V}$			10	$\mu\text{A}$
Radiated Power	$P_O$	$I_F = 20\text{mA}$	6.0	12.0		mW
Radiant Intensity	$I_E$	$I_F = 20\text{mA}$		18		$\text{mW/sr}$
Brightness	$I_V$	$I_F = 20\text{mA}$		15		mcd
Peak Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	405	415	425	nm
Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$		15		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$		$\pm 20$		deg.

‡Radiated Power is measured by S3584-08.

‡Radiated intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741

‡Brightness is measured by Tektronix J-16.