

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.

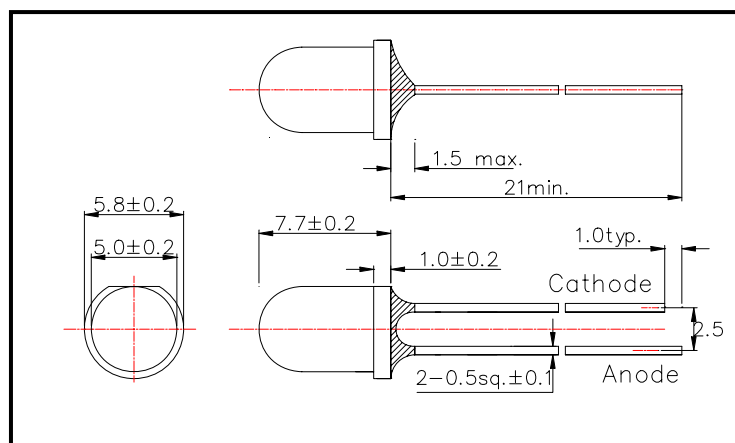
◆ Features

- 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 Φ 5mm 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 ~ +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 5 seconds at 265°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	μA
Radiated Power	P_O	$I_F=20\text{mA}$	6.0	12.0		mW
Radiant Intensity	I_E	$I_F=20\text{mA}$		18		mW/sr
Brightness	I_V	$I_F=20\text{mA}$		15		mcd
Peak Wavelength	λ_P	$I_F=20\text{mA}$	410	415	420	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.

‡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.