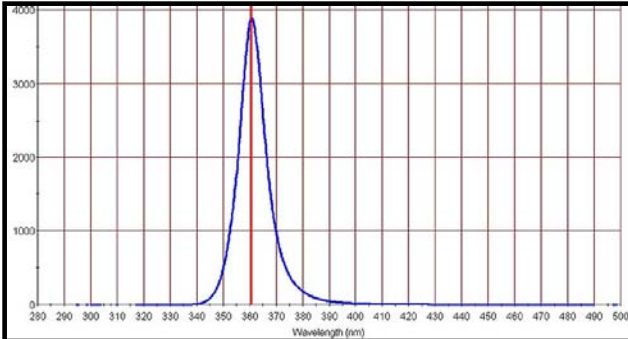


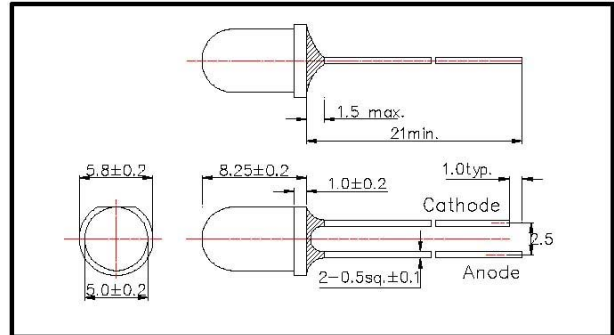
# RLT360-1.0-15

# UV-LED lamp

RLT360-1.0-15 is a InGaN UV-LED mounted on a lead frame with a clear UV resistant epoxy lens. On forward bias it emits UV light, which peaks at 361 nm.



emitted light spectrum



package dimensions

## Key Specifications

HVPE epitaxy process  
 Chip material: InGaN  
 Peak wavelength: typ. 361 nm  
 Package type: lead frame  
 Resin material: 5 mm clear UV resistant epoxy



photography

## Absolute Maximum Ratings (Ta = 25 °C)

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	130	mW	T <sub>a</sub> = 25°C
Forward Current	I <sub>F</sub>	30	mA	T <sub>a</sub> = 25°C
Pulse Forward Current	I <sub>FP</sub>	80	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>	-20 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-40 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	260	°C	

‡ Pulse forward current condition: duty cycle = 10% and pulse width = 10 ms. Soldering condition: soldering must be completed within 3 seconds at 260°C

## Optical and Electrical Characteristics (Ta = 25 °C)

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	3.6	4.3	5.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V			100	uA
Radiated Power	P <sub>O</sub>	I <sub>F</sub> = 20 mA	300	750	1200	μW
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20 mA	360	361	363	nm
Spectral Half Width	Δλ	I <sub>F</sub> = 20 mA	8	10	12	nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> = 20 mA		±15		deg



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