

# RV3-385-15-5

- UV Light Emitting Diode
- 385 nm, 10 mW
- 5 mm UV-resistant clear epoxy resin
- Beam Half Angle: ± 7.5°





mm

## Description

RV3-385-15-5 is an ultraviolet LED, typically emitting at 385 nm with an optical output power of 10 mW @ 20 mA. It comes in a hermetically sealed clear 5 mm UV-resistant clear epoxy resin with a beam angle of 15°

# Maximum Rating (TCASE = 25°C)

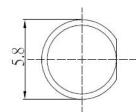
Parameter	Symbol	Val	Unit	
		Min.	Max.	Unit
Power Dissipation, DC	PD		114	mW
DC Forward Current*	<i>l</i> F		30	mA
Pulse Forward Current*	<b>I</b> FP		100	mA
Reverse Voltage	$V_{R}$		5	V
Operating Temperature	$T_{OPR}$	- 30	+ 85	°C
Storage Temperature	$T_{ m STG}$	- 40	+ 100	°C
Soldering Temperature (max 5s)	T <sub>SOL</sub>		+ 260	°C

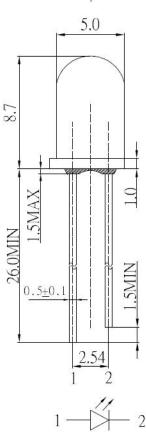
<sup>\*</sup> Duty cycle max. 10%, Pulse width max 10ms

# Electro-Optical Characteristics (TCASE = 25°C, IF = 20 mA)

Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Oilit
Peak Wavelength	λ <sub>P</sub>	380	385	390	nm
Forward Voltage	VF	3.0	3.4	3.8	V
Reverse Current (V <sub>R</sub> = 5V)	$V_{R}$			10	μΑ
Radiant Flux	$oldsymbol{\phi}_{E}$	8	10		mW
Beam Half Angle	Θ <sub>1/2</sub>		7.5		deg.



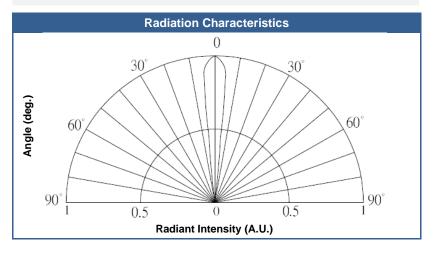




1:Anode 2:Cathode

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## Performance Characteristics



#### **General Notes**

#### **Soldering**

- · Do avoid overheating of the LED
- Do avoid electrostatic discharge (ESD)
- Do avoid mechanical stress, shock, and vibration
- · Do only use non-corrosive flux
- Do not apply current to the LED until it has cooled down to room temperature after soldering

#### Cleaning

- · Cleaning with isopropyl alcohol, propanol, or ethyl alcohol is recommended
- DO NOT USE acetone, chloroseen, trichloroethylene, or MKS
- DO NOT USE ultrasonic cleaners

#### **Static Electricity**

- LEDs are sensitive to electrostatic discharge (ESD).
- Precautions against ESD must be taken when handling or operating these LEDs
- Surge voltage or electrostatic discharge can result in complete failure of the LED.

#### Radiation

- During operation these LEDs do emit light, which could be hazardous to skin and eyes
- Do avoid exposure to the emitted light. Protective glasses if needed
- It is further advised to attach a warning label on products/systems.

#### Operation

- Do only operate LEDs with a current source.
- Running these LEDs from a voltage source will result in complete failure of the device.
- Usage of current regulated drive circuits is mandatory.

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