



# ROITHNER LASERTECHNIK GmbH

WIEDNER HAUPTSTRASSE 76  
TEL. +43 1 586 52 43 -O. FAX. -44

1040 VIENNA

AUSTRIA

OFFICE@ROITHNER-LASER.COM



## RV4-395-15-5

- UV Light Emitting Diode
- 395 nm, 14 mW
- 5 mm UV-resistant clear epoxy resin
- Beam Half Angle:  $\pm 7.5^\circ$



### Description

RV4-395-15-5 is an ultraviolet LED, typically emitting at 395 nm with an optical output power of 14 mW @ 20 mA. It comes in a hermetically sealed clear 5 mm **UV-resistant** clear epoxy resin with a beam angle of 15°

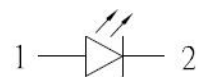
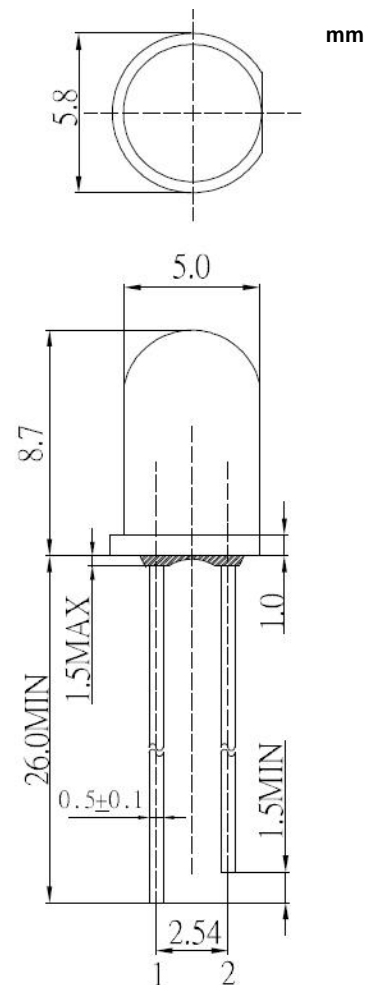
### Maximum Rating ( $T_{CASE} = 25^\circ C$ )

Parameter	Symbol	Values		Unit
		Min.	Max.	
Power Dissipation, DC	$P_D$		114	mW
DC Forward Current*	$I_F$		30	mA
Pulse Forward Current*	$I_{FP}$		100	mA
Reverse Voltage	$V_R$		5	V
Operating Temperature	$T_{OPR}$	- 30	+ 85	$^\circ C$
Storage Temperature	$T_{STG}$	- 40	+ 100	$^\circ C$
Soldering Temperature (max 5s)	$T_{SOL}$		+ 260	$^\circ C$

\* Duty cycle max. 10%, Pulse width max 10ms

### Electro-Optical Characteristics ( $T_{CASE} = 25^\circ C, I_F = 20 \text{ mA}$ )

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	$\lambda_P$	390	395	400	nm
Forward Voltage	$V_F$	3.0	3.4	3.8	V
Reverse Current ( $V_R = 5V$ )	$V_R$			10	$\mu A$
Radiant Flux	$\Phi_E$	12	14		mW
Beam Half Angle	$\Theta_{1/2}$		7.5		deg.



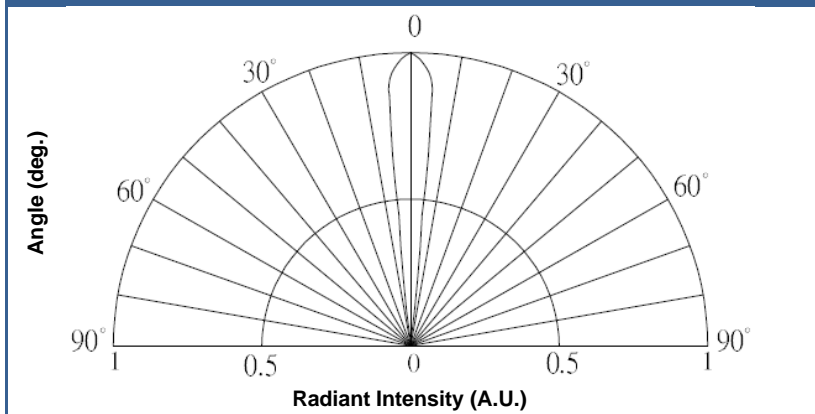
1: Anode  
2: Cathode





## Performance Characteristics

### Radiation 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, chloroform, 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.