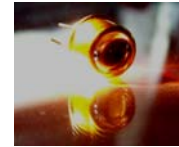


# TOCON\_nano

## High sensitive SiC based pre-amplified UV Sensor



The **TOCON\_nano** UV Sensor is designed to measure extremely low UV radiation intensities in the nW (Nanowatt) region. The device uses an integrated pre-amp and is based on a 0,22 mm<sup>2</sup> low noise SiC detector chip. Applications are burner control and other low-intensity measurements. 1 nW of radiation (on window) results a voltage of approx. 500 mV.

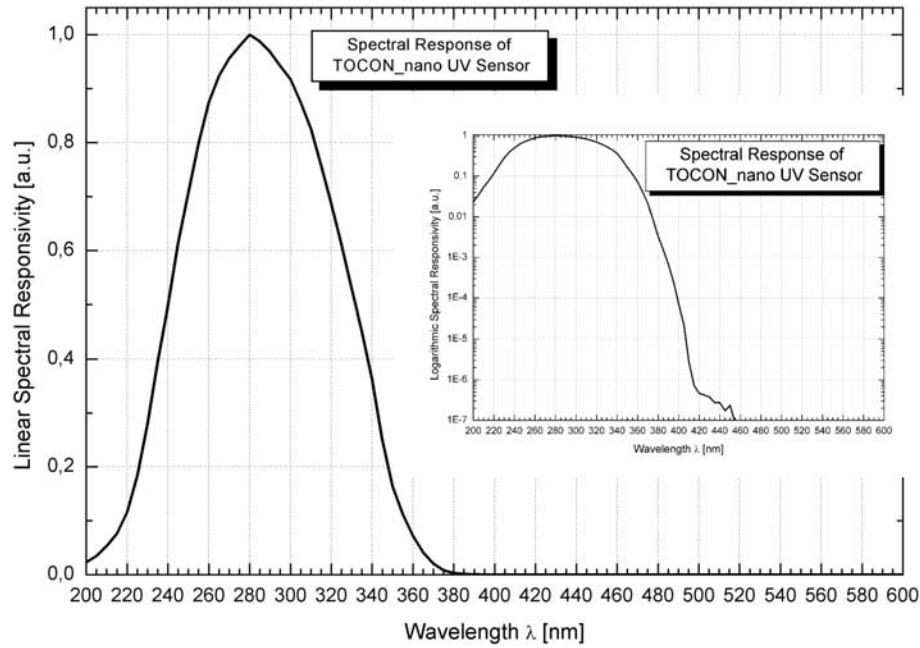


TOCON\_nano

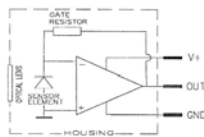
### Specifications ( $T_a=25^{\circ}\text{C}$ )

Parameters	Typical	Units	Condition
Radiant Sensitivity	0,5	V/nW	standard window
Spectral Response	210-380	nm	5% of peak
Wavelength of peak response	280	nm	
Sensitive area of the chip	0,22	mm <sup>2</sup>	
Virtual sensitive area with lens	12,80	mm <sup>2</sup>	
Selectivity	$>10^{-5}$		400....2000 nm
Operation Voltage	2,5...3,2	V	
Signal Output			Rail to Rail
Temperature Coefficient	<0,3	%/K	
Dark offset voltage	<5	mV	
Rise time	10	ms	t(63%)
Storage Temperature	-20 to 80	°C	non permanent
Operating Temperature	-20 to 80	°C	non permanent
Window transparency	>210	nm	

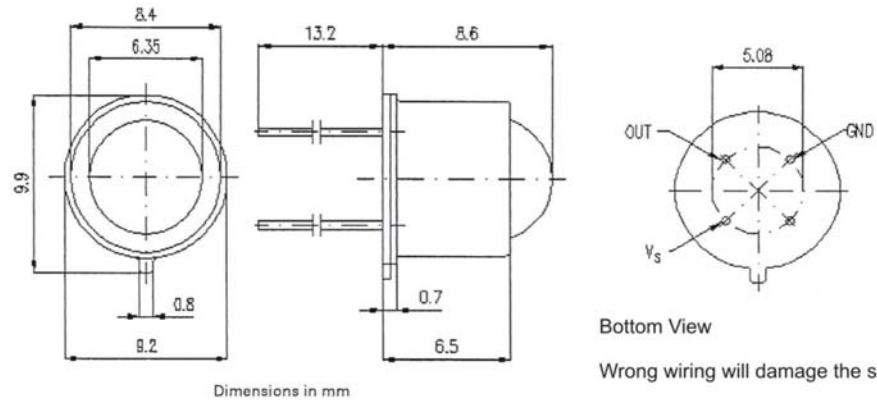
**Spectral Response of TOCON\_nano**



**Circuit**



**Package Dimensions**



Bottom View  
 Wrong wiring will damage the sensor.