

## General Features



### Properties of the TOCON\_standard

- Broad Band pre-amplified UV detector for standard level radiation
- 0.22 mm<sup>2</sup> SiC detector chip with cosine correction
- Applications: purification control, scientific experiments
- 10 mW/cm<sup>2</sup> peak radiation results in a voltage of approx. 2V

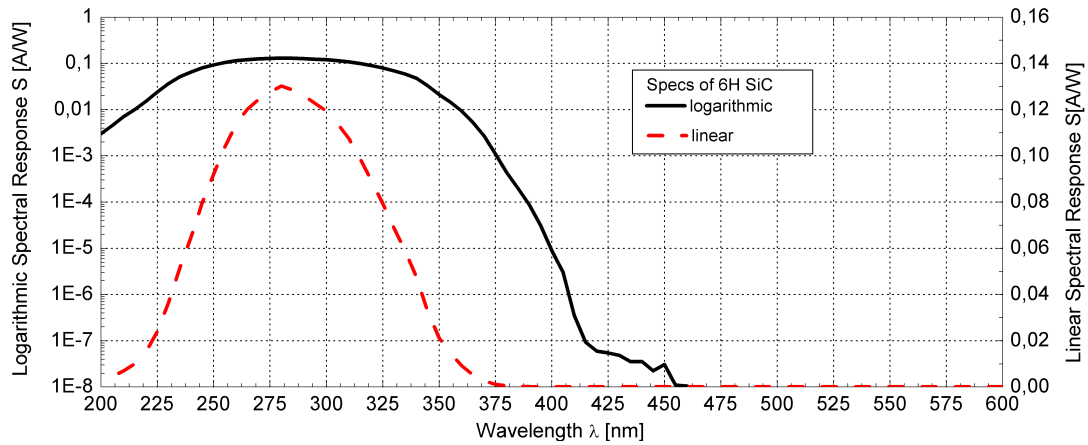
### The TOCON pre-amplified UV photodetectors

The TOCON devices use modern hybrid technology to cancel unwanted signal disturbances caused by moisture or electromagnetic radiation. The stable 0...5V output voltage can be directly connected to a SPC controller or a voltage multimeter.

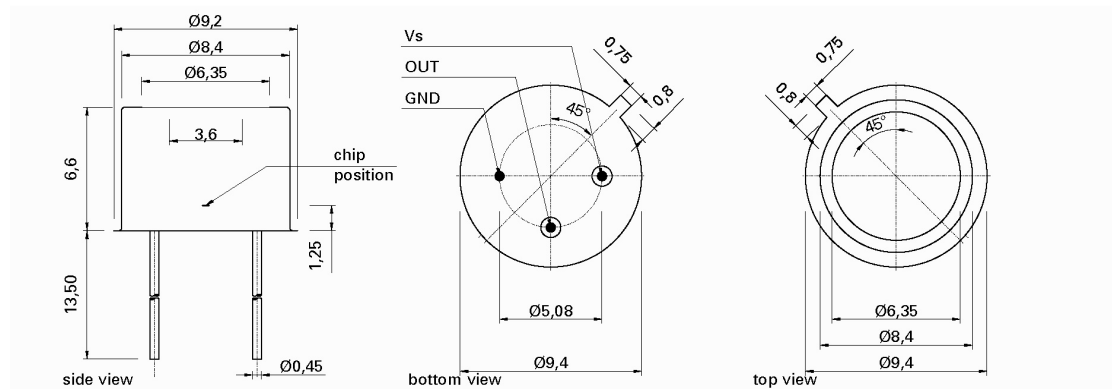
## Specifications

Parameter	Symbol	Value	Unit
<b>Maximum Ratings</b>			
Operating Temperature Range	$T_{opt}$	-25 ... +85	°C
Storage Temperature Range	$T_{stor}$	-40 ... +100	°C
Soldering Temperature (3s)	$T_{sold}$	300	°C
<b>General Characteristics (T=25°C)</b>			
Chip area	$A_{chip}$	0.22	mm <sup>2</sup>
Supply voltage	$V_{supply}$	2.5 ... 5.0	V
max. voltage	$V_{max}$	5.5	V
saturation voltage	$V_{sat}$	5.0	V
dark offset voltage	$V_{offset}$	0.5	mV
Temperature coefficient	$Tc$	<-0.3	%/K
Current	$I$	0.8	mA
Bandwidth (-3 dB)	$\Theta$	15	Hz
risetime (63%)	$t_{rise}$	10	ms
<b>Spectral Characteristics (T=25°C)</b>			
Sensitivity at peak	$S_{max}$	200	mV/mW/cm <sup>2</sup>
Wavelength of max. spectral sens.	$\lambda_{max}$	280	nm
Sensitivity range ( $S=0,1 \cdot S_{max}$ )	-	210 ... 380	nm
Visible blindness ( $S_{max} / S_{>400nm}$ )	$VB$	$10^5$	-

**Spectral Response**



**Drawing**



**Viewing Angle**

