

Ultraviolet selective SiC based Stainless Steel UV sensor



UV_Air_1



Features

- Optimally suited for UVC high radiation control
- Silicon Carbide based chip for extreme irradiation hardness
- Stainless steel V2A housing material
- Shielded 3.5mm plug

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature range	T_{opt}	-25 ... +70	°C
Reverse voltage	V_{Rmax}	20	V

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General Characteristics (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Active area	A	0.054	mm ²
Dark current at 1 V reverse bias	I _d	1	fA
Capacitance	C	21	pF
Short circuit current at bright sun	I ₀	ca. 70	nA

Spectral Characteristics (T_a = 25 °C)

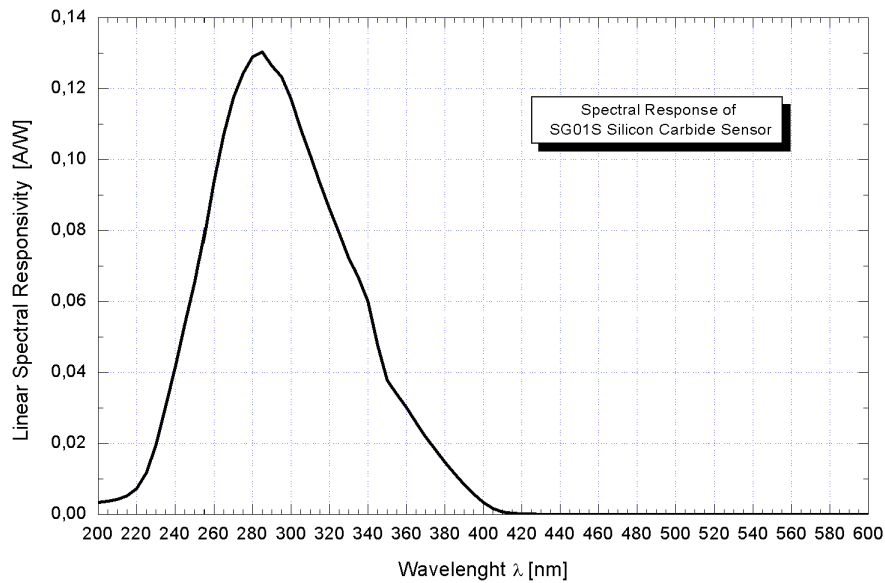
Parameter	Symbol	Value	Unit
Max. spectral sensitivity	S _{max}	0,13	A W ⁻¹
Wavelength of max. spectral sensitivity	λ _{Smax}	285	nm
Range of spectral sensitivity (S=0.1*S _{max})	-	210 - 380	nm

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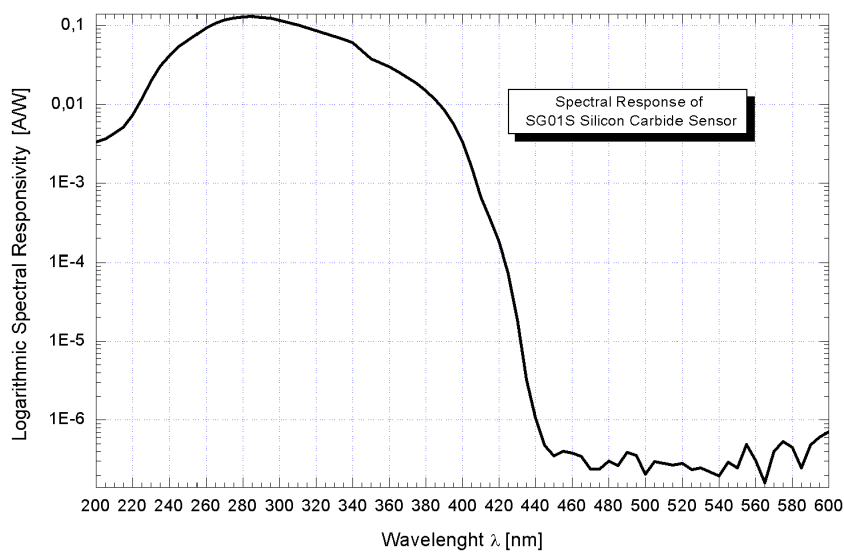


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Linear Spectral Response



Logarithmic Spectral Response



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Application Example

