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	℃
Reverse voltage	V_{Rmax}	20	V

For price, delivery, and to place orders, please contact Scitec in England at
Scitec Instruments Ltd, Bartles Industrial Estate, North Street, Redruth, Cornwall, TR15 HR
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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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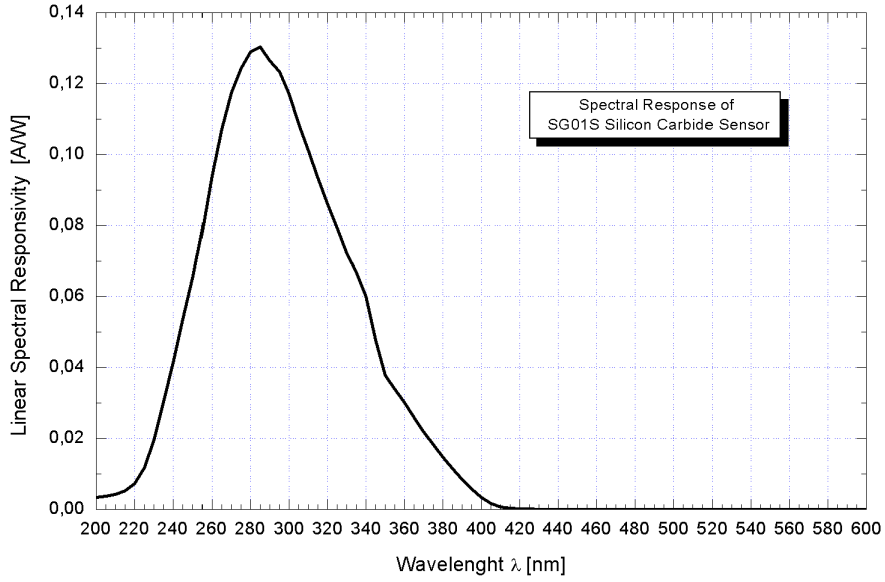
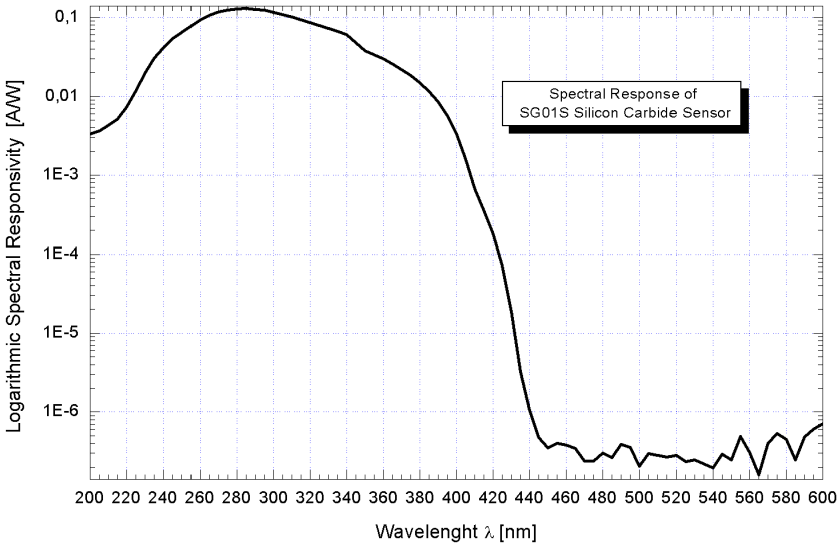
Linear Spectral Response



Logarithmic Spectral Response



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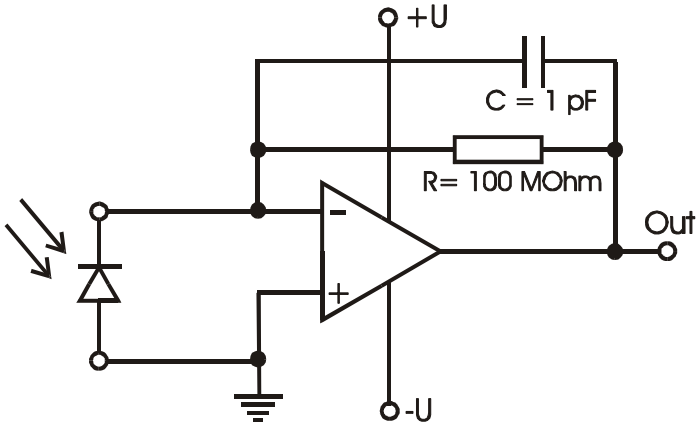
Application Example



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