



Features

- Broad Band UVA-UVB-UVC Photodiode
- Optimally suited for UVC high radiation control
- Silicon Carbide based chip for extreme irradiation hardness
- Intrinsic visible blindness due to wide-bandgap semiconductor material
- TO-18 metal package with 0.054 mm² active chip area
- The chip is manufactured by Cree Research Inc., U.S.A.

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature range	T _{opt}	-25 +70	C
Reverse voltage	V _{Rmax}	20	V



General Characteristics (T_a = 25 °C)

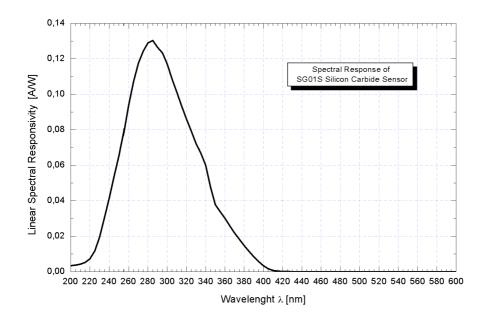
Parameter	Symbol	Value	Unit
Active area	А	0.054	mm ²
Dark current at 1 V reverse bias	Ι _d	1	fA
Capacitance	С	21	pF
Short circuit current at bright sun	Ι ₀	ca. 70	nA

Spectral Characteristics ($T_a = 25 \ C$)

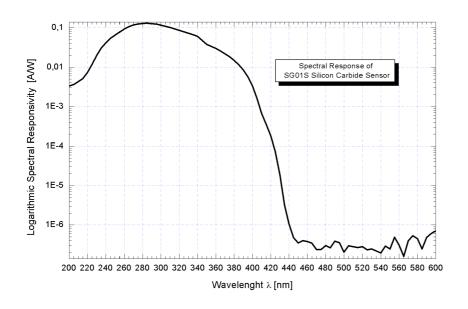
Parameter	Symbol	Value	Unit
Max. spectral sensitivity	S _{max}	0,13	A W ⁻¹
Wavelength of max. spectral sensitivity	λ_{Smax}	285	nm
Range of spectral sensitivity (S=0.1*S _{max})	-	210 - 380	nm



Linear Spectral Response



Logarithmic Spectral Response



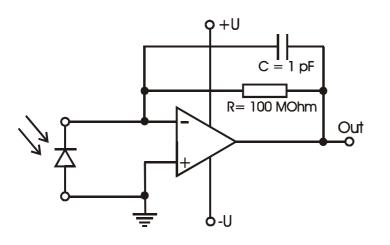
Rev. 1.4

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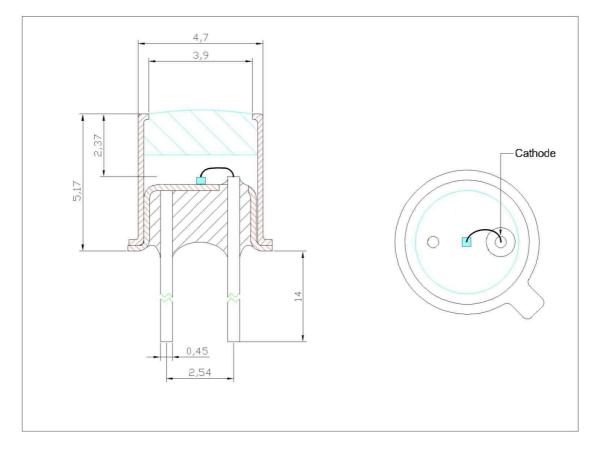
For price, delivery, and to place orders, please contact Scitec in England at Scitec Instruments Ltd, Bartles Industrial Estate, North Street, Redruth, Cornwall, TR15 HR Tel. +44 1209 314608, Fax +44 1209 314609 or visit our website: www.scitec.uk.com



Application Example



Pin Layout



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