Ultraviolet selective GaN based UV sensor

AG32S-SMD

Features

- UVB-UVC selective photodiode
- Optimally suited for low-cost UV consumer applications
- Intrinsically insensitive in the visible
- Semiconductor material AlGaN
- SMD package with quartz window
- 0,076 mm^2 active chip area
- Wide viewing angle (130°)
- High speed and low noise

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature range	T_{opt}	-30 ... +85	℃
Reverse voltage	V_{Rmax}	5	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
Tel. +44 1209 314608, Fax +44 1209 314609
or visit our website: www.scitec.uk.com

General Characteristics

(T_a = 25 ℃)

Parameter	Symbol	Value	Unit
Active area	A	0.076	mm^2
Dark current at 0.1 V reverse bias	I_d	100	fA
Capacitance	C	24	pF
Short circuit current at bright sun	I_0	ca. 6	nA

Spectral Characteristics

(T_a = 25 ℃)

Parameter	Symbol	Value	Unit
Max. spectral sensitivity	S_{max}	0.1	A W^{-1}
Wavelength of max. spectral sensitivity	λ_{Smax}	300	nm
Range of spectral sensitivity ($S=0.1*S_{max}$)	-	225-317	nm

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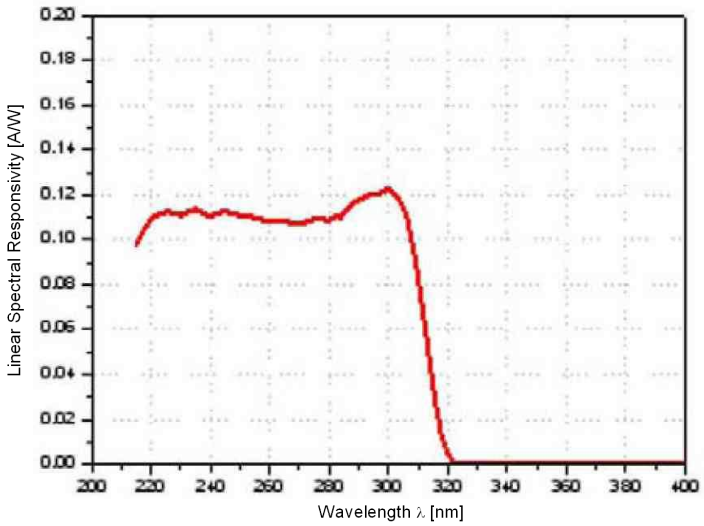
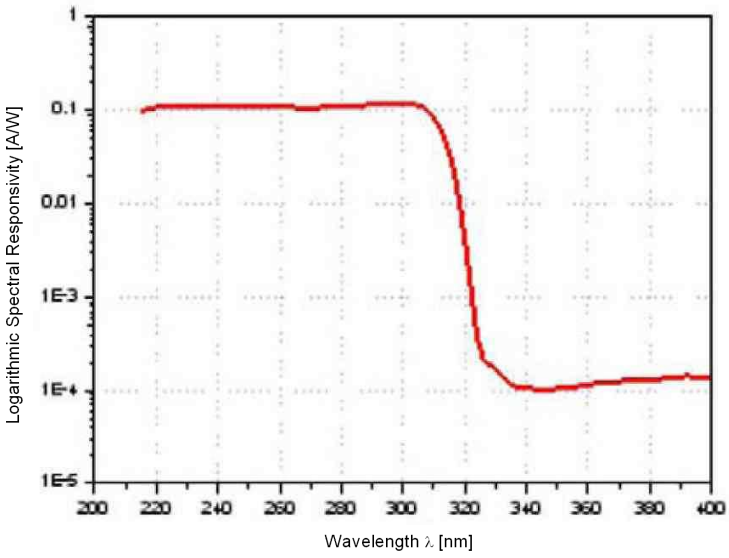
Linear Spectral Response



Logarithmic Spectral Response



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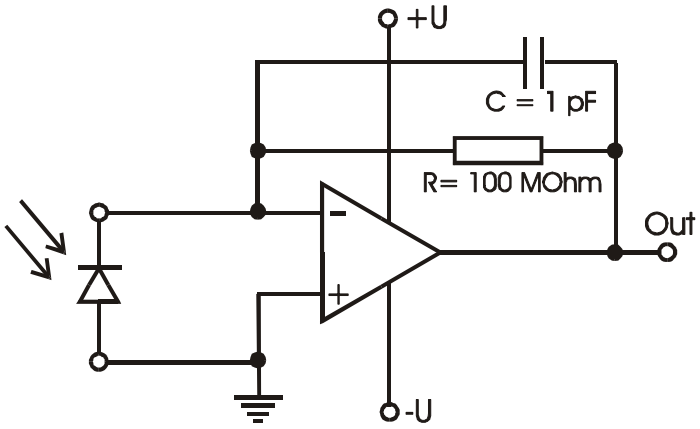
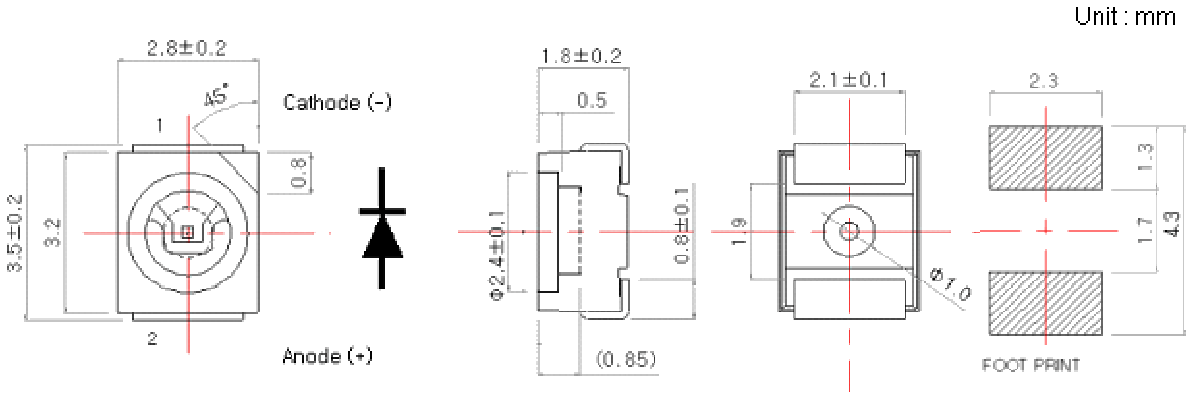
Application Examples



Pin Layout



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