



SiC-based UV photodiode

Model ST-ABC-XL

General Features:

- Broad band UVA+UVB+UVC photodiode
- Photovoltaic mode operation
- TO-5 metal housing
- Good visible blindness
- High responsivity and low dark current

Applications: UV index monitoring, UV radiation dose measurement, flame detection

Specifications:

Parameters	Symbol	Value	Unit
Maximum ratings			
Operation temperature range	T_{opt}	-55-200	°C
Storage temperature range	T_{sto}	-55-200	°C
Soldering temperature (3 s)	T_{sol}	260	°C
Reverse voltage	V_{r-max}	-20	V
General characteristics (25 °C)			
Chip size	A	4	mm ²
Dark current ($V_r = -5$ V)	I_d	<10	pA
Temperature coefficient (@265 nm)	T_c	0.065	%/°C
Capacitance (at 0 V and 1 MHz)	C_p	388	pF
Spectral response characteristics (25 °C)			
Wavelength of peak responsivity	λ_p	275	nm

Peak responsivity (at 275nm) 0.0172264304

