



SiC-based UV photodiode

Model: ST-ABC-M

General Features:

- Broad band UVA+UVB+UVC photodiode
- Photovoltaic mode operation
- TO-46 metal housing
- Good visible blindness
- High responsivity and low dark current

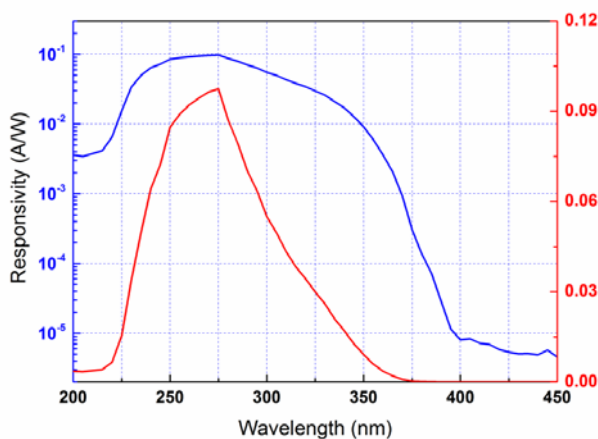


Applications: UV index monitoring, UV radiation dose measurement, flame detection

Specifications:

Parameters	Symbol	Value	Unit
Maximum ratings			
Operation temperature range	T_{opt}	-25-200	°C
Storage temperature range	T_{sto}	-40-120	°C
Soldering temperature (3 s)	T_{sol}	260	°C
Reverse voltage	V_{r-max}	-20	V
General characteristics (25 °C)			
Chip size	A	0.25	mm ²
Dark current ($V_r = -5$ V)	I_d	<0.1	nA
Temperature coefficient	T_c	0.1	%/°C
Capacitance (at 0 V and 1 MHz)	C_p	27	pF
Spectral response characteristics (25 °C)			
Wavelength of peak responsivity	λ_p	275	nm
Peak responsivity (at 275 nm)	R_{max}	0.097	A/W
Spectral response range ($R=0.1 \times R_{max}$)	-	220-350	nm
UV-visible rejection ratio ($R_{max}/R_{400\text{ nm}}$)	-	$>10^4$	-

Spectral response



Package dimensions

