



## SiC-based UV photodiode

Model STV-ABC-M

### General Features:

- Single voltage supply operation
- Direct voltage output
- TO-39 metal housing with sapphire window
- High sensitivity and good linearity
- Integrated solution in a single package

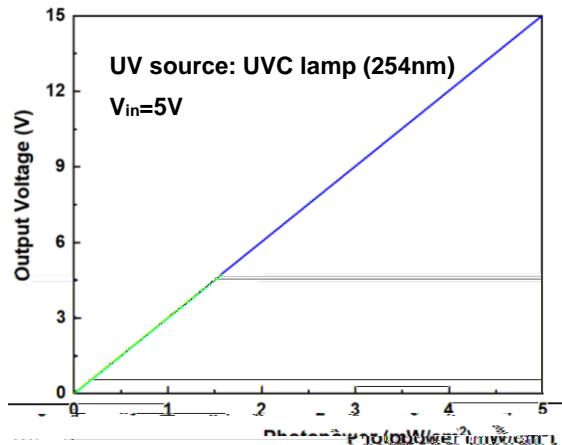


**Applications:** UV-C monitoring, UV radiation dose measurement, flame detection

### Specifications:

Parameters	Symbol	Value	Unit
<b>Maximum ratings</b>			
Operation temperature range	T <sub>opt</sub>	-25-85	°C
Storage temperature range	T <sub>sto</sub>	-40-85	°C
Soldering temperature (3 s)	T <sub>sol</sub>	260	°C
Supply voltage	V <sub>in</sub>	5	V
<b>General characteristics (25 °C)</b>			
Chip size	A	0.24	mm <sup>2</sup>
Temperature coefficient	T <sub>c</sub>	-0.02	%/°C
<b>Spectral response characteristics (25 °C)</b>			
Responsivity (at 254nm)	R	0.1	mV/nW
Output Voltage	V <sub>out</sub>	0-5	V
Offset Voltage	V <sub>off</sub>	0.02	V
Detection Power Range	P	0-15	mW/cm <sup>2</sup>
Rising Time	T <sub>r</sub>	2	μS

### Output Voltage vs UV power



### Package dimension

