

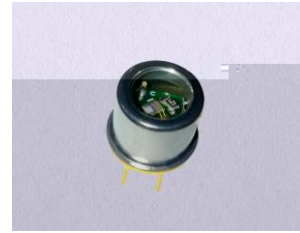


SiC-based UV photodiode

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

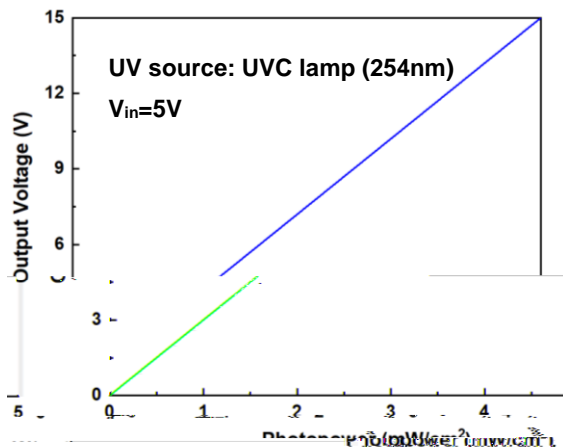


Applications: UV-C monitoring, UV radiation dose measurement, flame detection

Specifications:

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

Output Voltage vs UV power



Package dimension

