

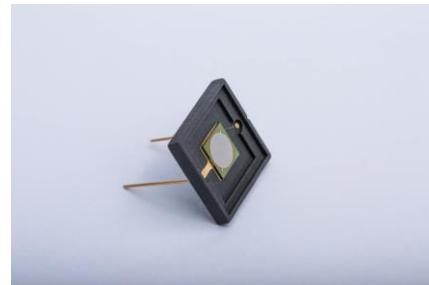


VUV photodiode

Model SCT-VUV20

General Features:

- SiC-based vacuum ultraviolet (VUV) photodiode
- Excellent stability under high fluence VUV exposure
- Photovoltaic mode operation
- Visible blind and low dark current
- High detection efficiency for 193 nm VUV radiation
- Ceramic package

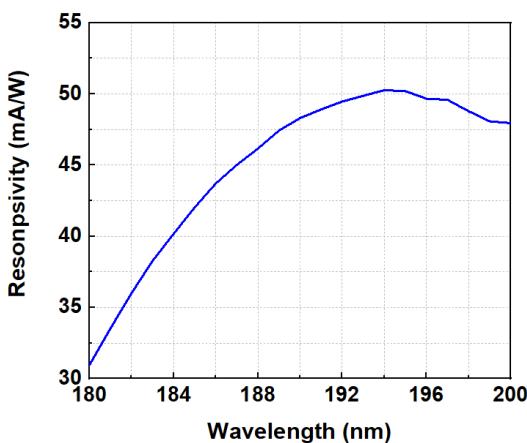


Applications: VUV radiation flux measurement, 193 nm excimer laser monitoring

Specifications:

| Parameters | Symbol | Value | Unit |
|--|--------------------|--------|-----------------|
| Maximum ratings | | | |
| Operation temperature range | T _{opt} | -20-80 | °C |
| Storage temperature range | T _{sto} | -55-90 | °C |
| Soldering temperature (3 s) | T _{sol} | 260 | °C |
| Maximum reverse voltage | V _{r-max} | -20 | V |
| Electro-Optical characteristics (25 °C) | | | |
| Effective photo-sensitive area | A | 19.6 | mm ² |
| Responsivity (@193 nm) | R | 50 | mA/W |
| Dark current (@-1 V) | I _d | < 100 | pA |
| Shunt resistance (@±10 mV) | R _{sh} | > 10 | |
| Capacitance (@ 0 V and 1 MHz) | C _p | 565 | pF |
| Rise time (V _r =0 V, R _L =50) | t _r | < 1 | s |

Spectral response



Package dimensions

