

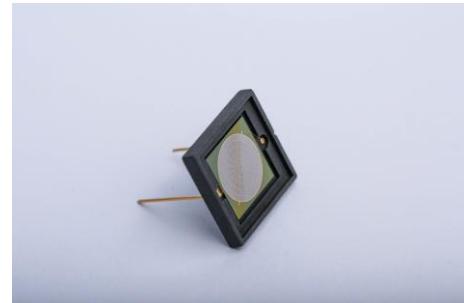


# VUV photodiode

Model SCT-VUV64

## 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

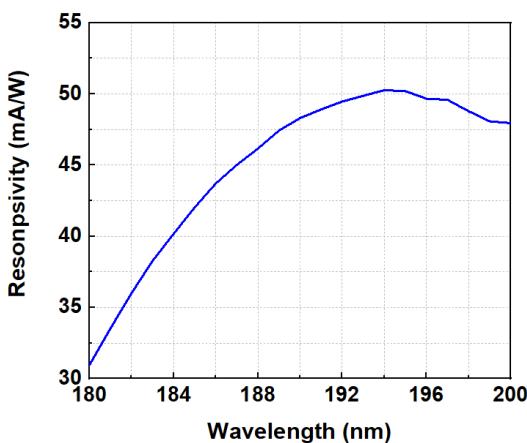


**Applications:** VUV radiation flux measurement, 193 nm excimer laser monitoring

## Specifications:

Parameters	Symbol	Value	Unit
<b>Maximum ratings</b>			
Operation temperature range	T <sub>opt</sub>	-20-80	°C
Storage temperature range	T <sub>sto</sub>	-55-90	°C
Soldering temperature (3 s)	T <sub>sol</sub>	260	°C
Maximum reverse voltage	V <sub>r-max</sub>	-20	V
<b>Electro-Optical characteristics (25 °C)</b>			
Effective photo-sensitive area	A	63.5	mm <sup>2</sup>
Responsivity (@193 nm)	R	50	mA/W
Dark current (@-1 V)	I <sub>d</sub>	< 100	pA
Shunt resistance (@±10 mV)	R <sub>sh</sub>	> 10	
Capacitance (@ 0 V and 1 MHz)	C <sub>p</sub>	2.4	nF
Rise time (V <sub>r</sub> =0 V, R <sub>L</sub> =50 )	t <sub>r</sub>	< 2	s

## Spectral response



## Package dimensions

