

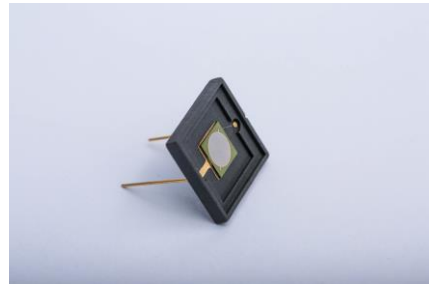


# VUV photodiode

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

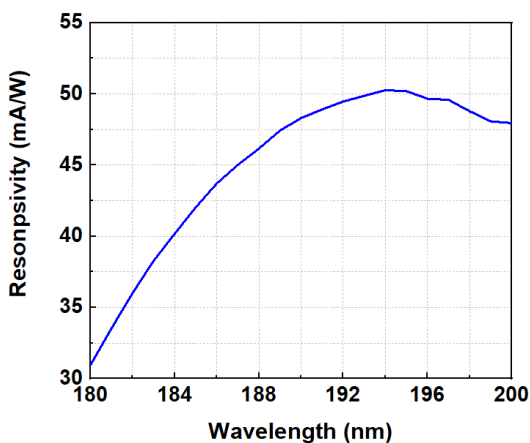


**Applications:** VUV radiation flux measurement, 193 nm excimer laser monitoring

## Specifications:

Parameters	Symbol	Value	Unit
<b>Maximum ratings</b>			
Operation temperature range	$T_{opt}$	-20-80	°C
Storage temperature range	$T_{sto}$	-55-90	°C
Soldering temperature (3 s)	$T_{sol}$	260	°C
Maxium reverse voltage	$V_{r-max}$	-20	V
<b>Electro-Optical characteristics (25 °C)</b>			
Effective photo-sensitive area	A	19.6	mm <sup>2</sup>
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

