

# **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

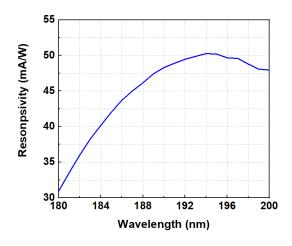


Applications: VUV radiation flux measurement, 193 nm excimer laser monitoring

### **Specifications:**

Parameters	Symbol	Value	Unit
Maximum ratings			
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
Maxium reverse voltage	$V_{r-max}$	-20	V
Electro-Optical characteristics (25 °C)			
Effective photo-sensitive area	А	63.5	mm²
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)	Cp	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

