

► UVC Sensor with Standard Chip (SMD Type)

- **Feature :** Aluminium Gallium Nitride Based Material
Schottky-type Photodiode
Photovoltaic Mode Operation
Good Solar Blindness
- **Application**
- Pure UV-C Monitoring
- Sterilization Lamp Monitoring



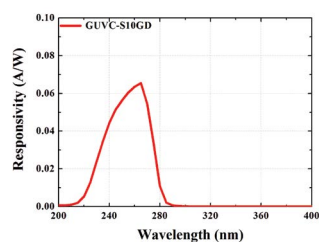
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	°C	
Operating Temperature	T_{op}	-30	85	°C	
Reverse Voltage	$V_{r,max}$		3	V	
Forward Current	$I_{f,max}$		1	mA	
Optical Source Power Range	P_{opt}	0.1	100,000	$\mu W/cm^2$	UVC Lamp
Soldering Temperature	T_{sol}		260	°C	within 10 sec.

*Notice : apply to us in the case that Optical Source Power is over 100,000 $\mu W/cm^2$

▪ Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	$V_r = 0.1 V$
Photo Current	I_{ph}		78		nA	UVC Lamp, 2mW/cm ²
Temperature Coefficient	I_{tc}		-0.07		%/°C	UVC Lamp
Responsivity	R		0.07		A/W	$\lambda = 254 nm, V_r = 0V$
Spectral Detection Range	λ	220		280	nm	10% of R
Active area			0.076		mm ²	

Responsivity Curve



Photocurrent along UV Power

