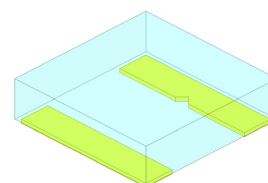


# UV-C Sensor

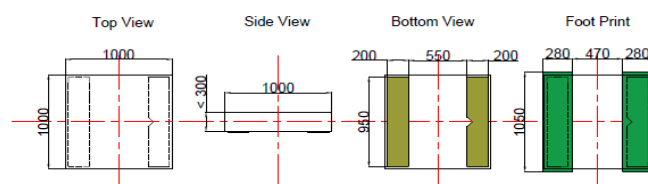
## GUVC-S40GD

<b>Features</b>	Aluminium Gallium Nitride Based Material
	Schottky-type Photodiode
	Photovoltaic Mode Operation
	Good Solar Blindness



<b>Applications</b>	Pure UV-C Monitoring
	Sterilization Lamp Monitoring

### Outline Diagrams and Dimensions



### Absolute Maximum Ratings

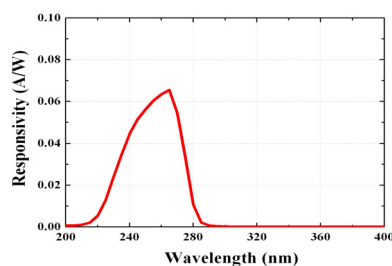
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90	$^{\circ}C$	
Operating Temperature	$T_{op}$	-30	85	$^{\circ}C$	
Reverse Voltage	$V_{r, max.}$		3	V	
Forward Current	$I_{f, max.}$		1	mA	
Optical Source Power Range	$P_{opt}$	0.1 $\mu$	100m	W/cm $^2$	UVC Lamp
Soldering Temperature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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	$I_d$			1	nA	$V_r = 0.1$ V
Photo Current	$I_{ph}$		140		nA	UVC Lamp, 1mW/cm $^2$
Temperature Coefficient	$I_{tc}$		-0.07		%/ $^{\circ}C$	UVC Lamp
Responsivity	R		0.06		A/W	$\lambda = 254$ nm, $V_r = 0$ V
Spectral Detection Range	$\lambda$	220		280	nm	10% of R
Active area			0.827		mm $^2$	

### Responsivity Curve



### Caution

ESD can damage the device hence please avoid ESD.