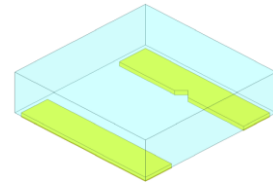


# UV-C Sensor GUVC-S40GD



**Features**

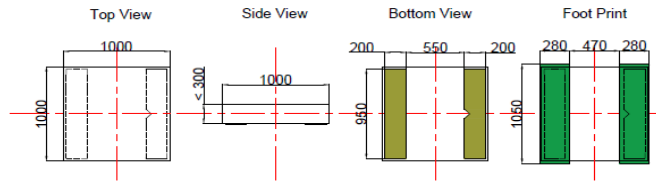
- Aluminium Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- Good Solar Blindness



**Applications**

- Pure UV-C Monitoring
- Sterilization Lamp Monitoring

### Outline Diagrams and Dimensions



### Absolute Maximum Ratings

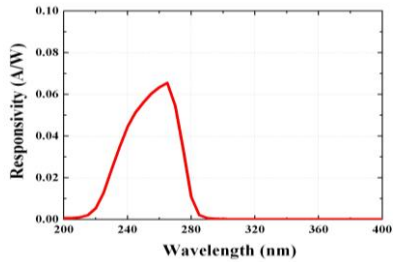
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90	°C	
Operating Temperature	$T_{op}$	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		3	V	
Forward Current	$I_{f, max.}$		1	mA	
Optical Source Power Range	$P_{opt}$	0.01	100	mW/cm <sup>2</sup>	UVC Lamp
Soldering Temperature	$T_{sol}$		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100mW/cm<sup>2</sup>.

### 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	$I_{ph}$		140		nA	UVC Lamp, 1mW/cm <sup>2</sup>
Temperature Coefficient	$I_{tc}$		-0.07		%/°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 <sup>2</sup>	

### Responsivity Curve



### Caution

ESD can damage the device hence please avoid ESD.