

<Preliminary version>

# UV(185nm) Sensor

## GUVC-T10GD-L185



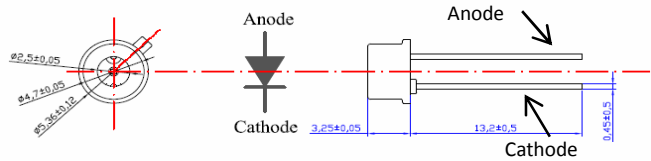
**Features**

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



**Applications**      **185nm UV Monitoring**

**Outline Diagrams and Dimensions**



### Absolute Maximum Ratings

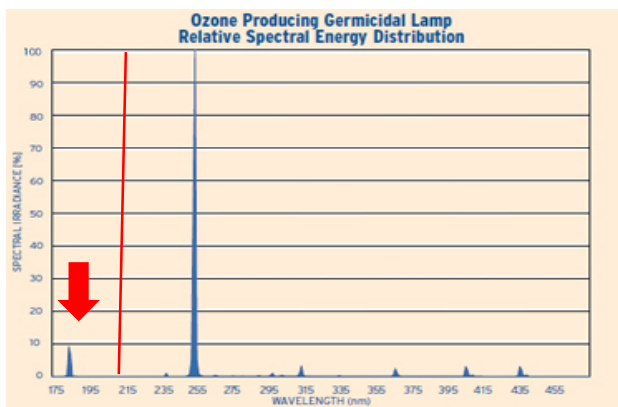
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40	90	°C	
Operating Temperature	T <sub>op</sub>	-30	85	°C	
Reverse Voltage	V <sub>r, max.</sub>		2	V	
Forward Current	I <sub>f, max.</sub>		1	mA	
Optical Source Power Range	P <sub>opt</sub>	0.01μ	100m	W/cm <sup>2</sup>	UVC Lamp
Soldering Temperature	T <sub>sol</sub>		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100,000μW/cm<sup>2</sup>.

### Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I <sub>d</sub>			20	nA	V <sub>r</sub> = 0.1 V
Photo Current	I <sub>ph</sub>	94	104	114	nA	Ozone Lamp, 195nm CutFilter 1 mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>		-0.07		%/°C	UVC Lamp
Active area			1.536		mm <sup>2</sup>	

### Ozone Lamp Spectrum



<오존램프 파장 스펙트럼>

#### \* Note

If you sense only 185nm wave in ozone lamp, you have to use the separate filter.

### Caution

ESD can damage the device hence please avoid ESD. Insulate the cap of TO-CAN or it can cause malfunction of the device.