

<Preliminary version>

UV(185nm) Sensor

GUVC-T10GD-L185



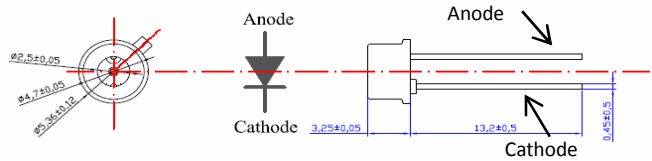
Features

- 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

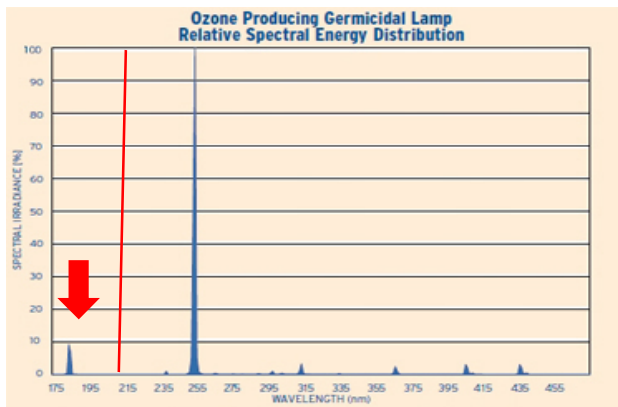
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T _{st}	-40	90	°C	
Operating Temperature	T _{op}	-30	85	°C	
Reverse Voltage	V _{r, max.}		2	V	
Forward Current	I _{f, max.}		1	mA	
Optical Source Power Range	P _{opt}	0.01μ	100m	W/cm ²	UVC Lamp
Soldering Temperature	T _{sol}		260	°C	within 10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

*Notice: apply to us in the case that Optical Source Power is over 100,000μW/cm².

Characteristics (at 25°C)

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

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.