<Preliminary version>

UV(185nm) Sensor

GUVC-T10GD-L185

Genuine UV Technology

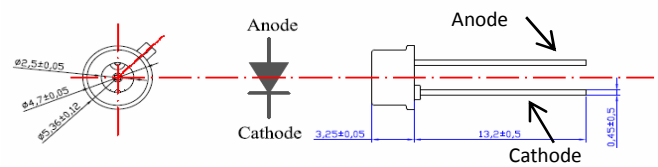
Features

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

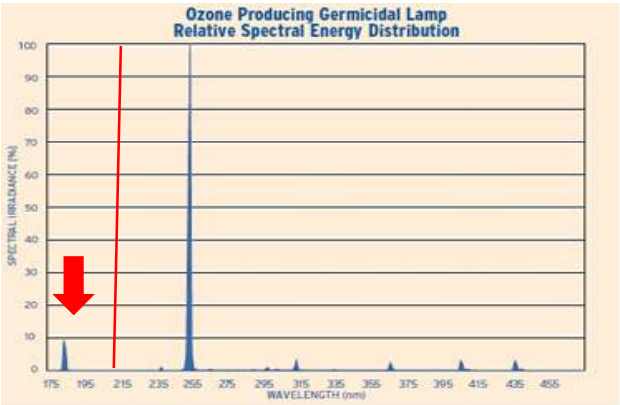
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		2	V	
Forward Current	$I_{f,max.}$		1	㎃	
Optical Source Power Range	P_{opt}	0.01μ	100m	W/㎠	UVC Lamp
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

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

Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			20	nA	Vr = 0.1 V
Photo Current	I_{ph}	94	104	114	nA	Ozone Lamp, 195nm CutFilter 1 mW/cm²
Temperature Coefficient	I_{tc}		-0.07		%/℃	UVC Lamp
Active area			1.536		㎟	

Ozone Lamp Spectrum



<오존램프 파장 스펙트럼>

*** Note**

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