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Far UV Sensor

GFUV-T10GD-L

Genuine UV Technology genUV

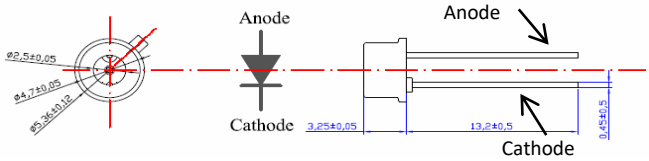
Features

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

Applications

- Far UV Monitoring
- Excimer Lamp Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

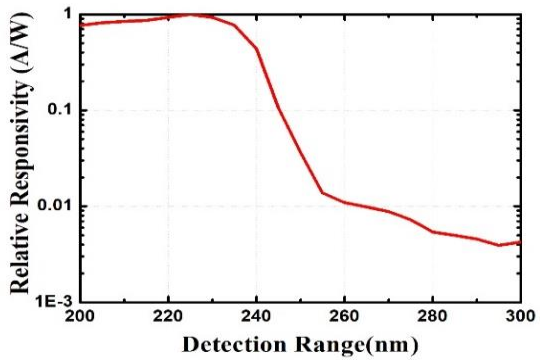
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		2	V	
Forward Current	$I_{f,max.}$		1	㎃	
Optical Source Power Range	P_{opt}	0.1m	100m	W/㎠	Excimer Lamp
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

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

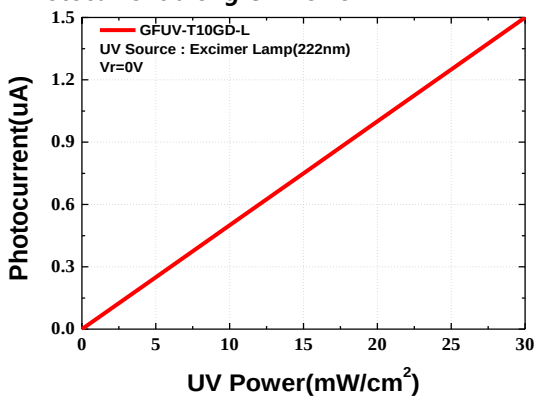
Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			100	pA	Vr = 1 V
Photo Current	I_{ph}	45	50	55	nA	222nm peak FUV Lamp,1㎽/㎠
		2.12	2.35	2.58	nA	172nm peak VUV Lamp,1㎽/㎠
Spectral Detection range	λ			245	nm	
Active area			1.536		㎟	

Relative Responsivity(A/W)



Photocurrent along UV Power



Caution

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