



Electro Optical Components, Inc.

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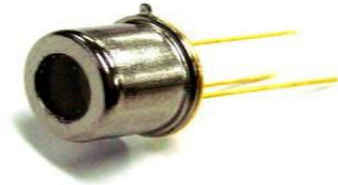
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UV-A Sensor GUUV-T20GD-U

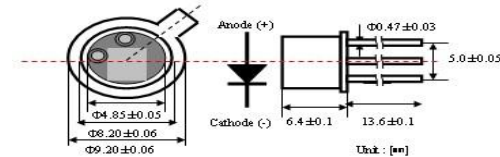


- Features**
- Indium Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - High Responsivity & Low Dark Current



- Applications**
- Full UV Band Monitoring
 - UV-A Lamp Monitoring
 - Sterilization Lamp Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

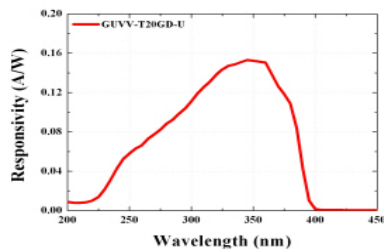
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	$^{\circ}C$	
Operating Temperature	T_{op}	-30	85	$^{\circ}C$	
Reverse Voltage	$V_{r,max}$		2	V	
Forward Current	$I_{f,max}$		1	mA	
Optical Source Power Range	P_{opt}	0.01	100,000	$\mu W/cm^2$	UVA Lamp
Soldering Temperature	T_{sol}		260	$^{\circ}C$	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over $100,000\mu W/cm^2$.

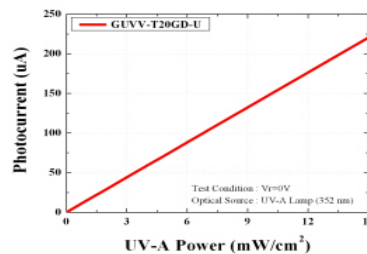
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			90	nA	$V_r = 0.1 V$
Photo Current	I_{ph}		14.7		μA	UVA Lamp, $1mW/cm^2$
Temperature Coefficient	I_{tc}		0.1		$\%/^{\circ}C$	UVA Lamp
Responsivity	R		0.15		A/W	$\lambda = 352 nm, V_r = 0 V$
Spectral Detection Range	λ	230		395	nm	10% of R
Active area			6.894		mm^2	

Responsivity Curve



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.