

UV-A Sensor GUVV-T10GD



Features

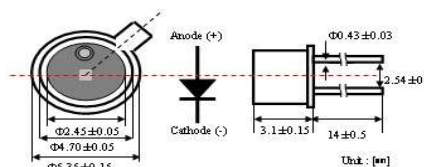
Gallium Nitride Based Material
Schottky-type Photodiode
Photovoltaic Mode Operation
High Responsivity & Low Dark Current



Applications

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

Outline Diagrams and Dimensions



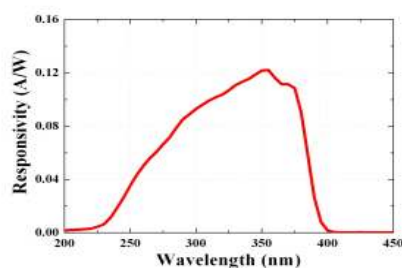
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	$^{\circ}\text{C}$	
Operating Temperature	T_{op}	-30	85	$^{\circ}\text{C}$	
Reverse Voltage	$V_{r, max.}$		5	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	T_{sol}		260	$^{\circ}\text{C}$	within 10 sec.

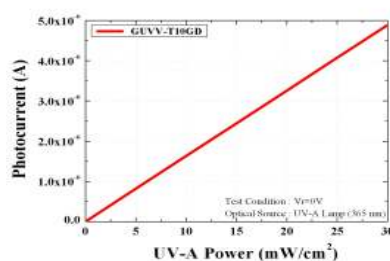
Characteristics (at 25 $^{\circ}\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	$V_r = 0.1\text{ V}$
Photo Current	I_{ph}		163		nA	UVA Lamp, $1\text{ mW}/\text{cm}^2$
Temperature Coefficient	I_{tc}		0.1		$\%/^{\circ}\text{C}$	UVA Lamp
Responsivity	R		0.12		A/W	$\lambda = 350\text{ nm}$, $V_r = 0\text{ V}$
Spectral Detection Range	λ	230		395	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution