

# UV-A Sensor GUVV-T20GD-U



## Features

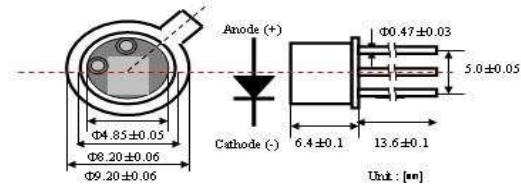
- Indium Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- High Responsivity & Low Dark Current



## Applications

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

## Outline Diagrams and Dimensions



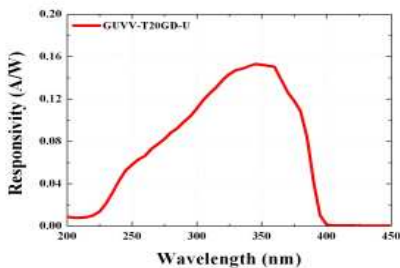
## Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90	°C	
Operating Temperature	$T_{op}$	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		2	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	$T_{sol}$		260	°C	within 10 sec.

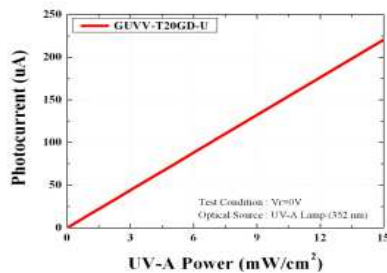
## Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	$I_d$			100	nA	$V_r = 0.1$ V
Photo Current	$I_{ph}$		14.7		$\mu$ A	UVA Lamp, $1 \text{ mW/cm}^2$
Temperature Coefficient	$I_{tc}$		0.1		%/°C	UVA Lamp
Responsivity	R		0.15		A/W	$\lambda = 352$ nm, $V_r = 0$ V
Spectral Detection Range	$\lambda$	230		395	nm	10% of R

## 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.