

# UV-A Sensor

## GUVV-T13GD-L

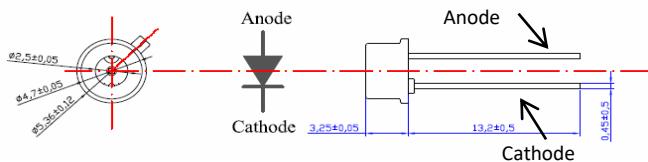
Genuine UV Technology  
**GenUV**

**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
- 365,385nm UV LED Monitoring

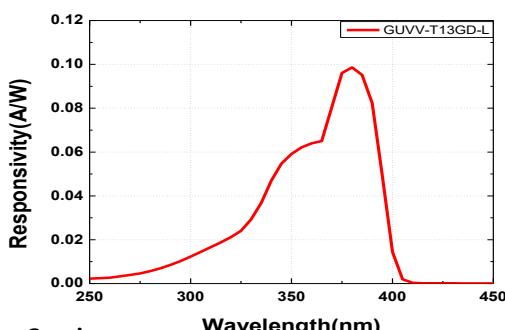
**Outline Diagrams and Dimensions****Absolute Maximum Ratings**

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40	90	°C	
Operating Temperature	T <sub>op</sub>	-30	85	°C	
Reverse Voltage	V <sub>r, max.</sub>		5	V	
Forward Current	I <sub>f,max.</sub>		1	mA	
Optical Source Power Range	P <sub>opt</sub>	0.01	100	mW/cm <sup>2</sup>	UVA Lamp
Soldering Temperature	T <sub>sol</sub>		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100mW/cm<sup>2</sup>.

**Characteristics (at 25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I <sub>d</sub>			20	nA	V <sub>r</sub> = 1 V
Photo Current	I <sub>ph</sub>	801	890	979	nA	UVA Lamp, 1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>		-0.03		%/°C	UVA Lamp
Responsivity	R		0.098		A/W	λ = 380 nm, V <sub>r</sub> = 0 V
Spectral Detection Range	λ	295		400	nm	10% of R
Active area			1.024		mm <sup>2</sup>	

**Responsivity Curve****Caution**

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

**Photocurrent along UV Power**