



# Electro Optical Components, Inc.

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## UV-A Sensor GUVV-T10GD-L

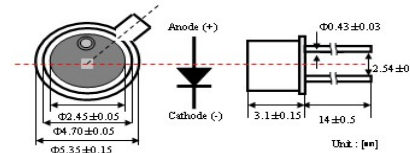


- Features**
- Indium Gallium Nitride Based Material
  - Schottky-type Photodiode
  - Photovoltaic Mode Operation
  - High Responsivity & Low Dark Current



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

### Outline Diagrams and Dimensions



### Absolute Maximum Ratings

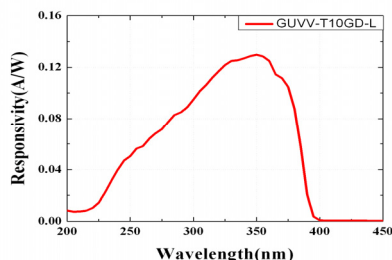
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40	90	°C	
Operating Temperature	T <sub>op</sub>	-30	85	°C	
Reverse Voltage	V <sub>r, max.</sub>		2	V	
Forward Current	I <sub>f, max.</sub>		1	mA	
Optical Source Power Range	P <sub>opt</sub>	0.01	100,000	μW/cm <sup>2</sup>	UVA 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 100,000μW/cm<sup>2</sup>.

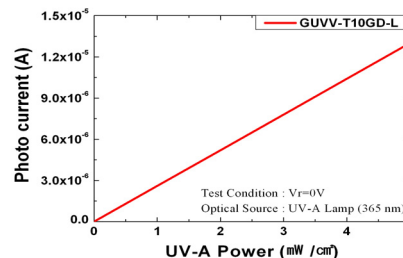
### Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I <sub>d</sub>			20	nA	V <sub>r</sub> = 0.1 V
Photo Current	I <sub>ph</sub>		2.6		μA	UVA Lamp, 1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>		0.1		%/°C	UVA Lamp
Responsivity	R		0.13		A/W	λ = 350 nm, V <sub>r</sub> = 0 V
Spectral Detection Range	λ	230		395	nm	10% of R
Active area			1.536		mm <sup>2</sup>	

### 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.