

# UV-A Sensor

## GUVA-S10GD



**Features**

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



**Applications**

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

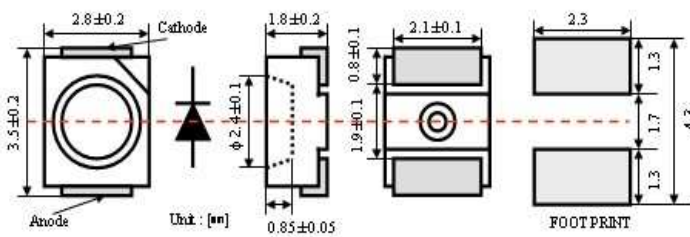
### Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90	°C	
Operating Temperature	$T_{op}$	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		5	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	$I_d$			1	nA	$V_r = 0.1 V$
Photo Current	$I_{ph}$		74		nA	UVA Lamp, $1 mW/cm^2$
Temperature Coefficient	$I_{tc}$		0.08		%/°C	UVA Lamp
Responsivity	R		0.15		A/W	$\lambda = 350 nm, V_r = 0 V$
Spectral Detection Range	$\lambda$	200		370	nm	
Breakdown Voltage	$V_{BR}$		10			$I_r = 1 \mu A$

### Outline Diagrams and Dimensions



### Responsivity Curve

