

# UV-A Sensor

## GUVA-T11SD



- 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

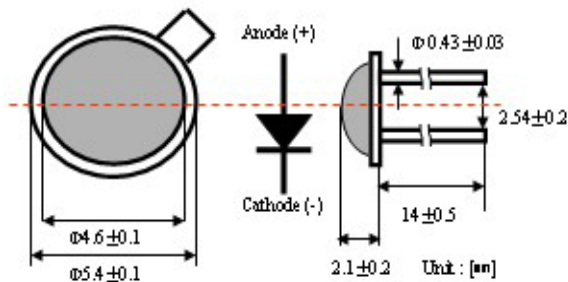
### Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90		
Operating Temperature	$T_{op}$	-30	85		
Reverse Voltage	$V_{r, max.}$		5	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	$T_{sol}$		260		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	$I_{ph}$		450		nA	UVA Lamp, $1mW/cm^2$
Temperature Coefficient	$I_{tc}$		0.05		%/°C	UVA Lamp
Responsivity	$R$		0.41		A/W	$\lambda = 350 nm, V_r = 0 V$
Spectral Detection Range	$\lambda$	240		370	nm	
Breakdown Voltage	$V_{BR}$		10		V	$I_r = 1 \mu A$

### Outline Diagrams and Dimensions



### Responsivity Curve

