



## GUVA-S12SD



### TECHNICAL DATA

## UV-B Sensor

#### Features

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

#### Applications

- UV Index Monitoring
- UV-A Lamp Monitoring

#### Absolute Maximum Ratings

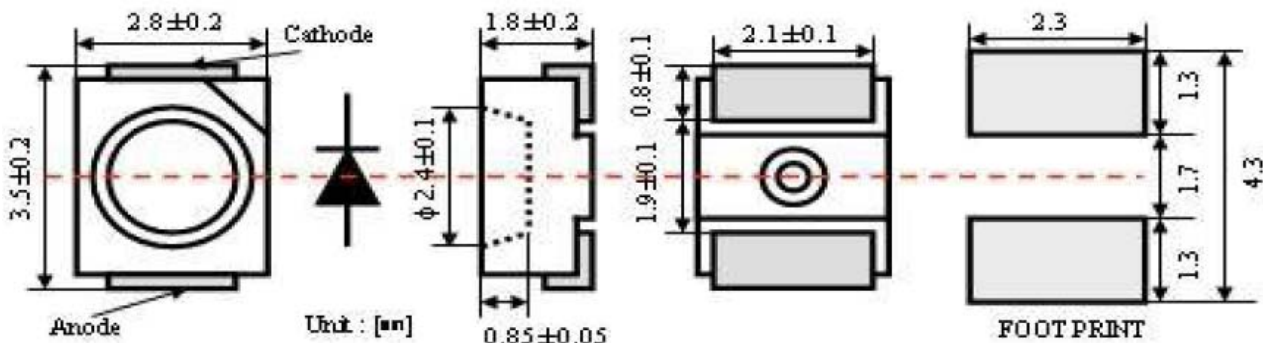
Item	Symbol	Value	Unit
Forward Current	$I_F$	1	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{op}$	-30 ... +85	°C
Storage Temperature	$T_{st}$	-40 ... +90	°C
Soldering Temperature *	$T_{sol}$	260	°C

\* must be completed within 10 seconds

#### Characteristics (25°C)

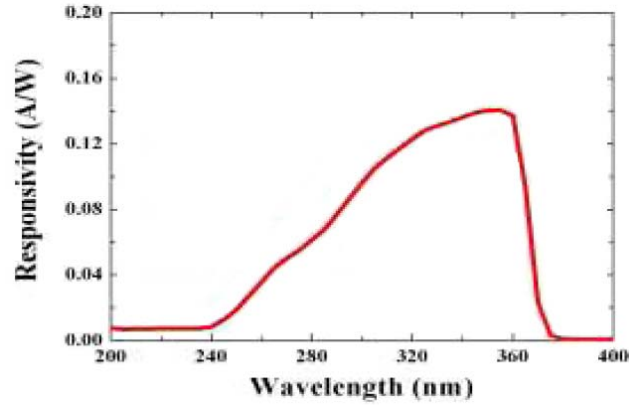
Item	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Dark Current	$I_D$	$V_R = 0.1 \text{ V}$	-	-	1	nA
Photo Current	$I_{PD}$	UVA Lamp, 1 mW/cm <sup>2</sup>	-	113	-	nA
		1 UVI	-	26	-	nA
Temperature Coefficient	$I_{TC}$	UVA Lamp	-	0.08	-	% / °C
Responsivity	R	$\lambda = 300 \text{ nm}, V_R = 0 \text{ V}$	-	0.14	-	A/W
Spectral Detection Range	$\lambda$	10% of R	240	-	370	nm

#### Package Dimension

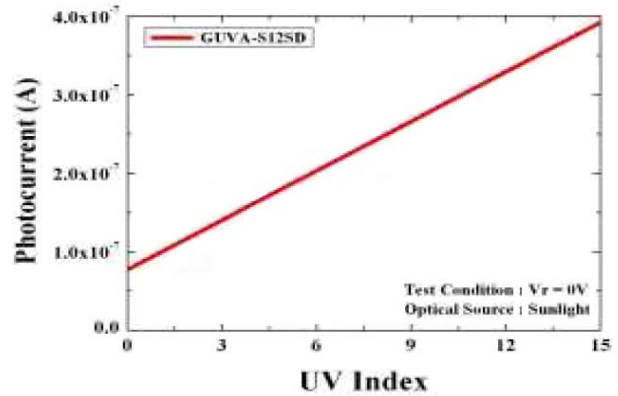
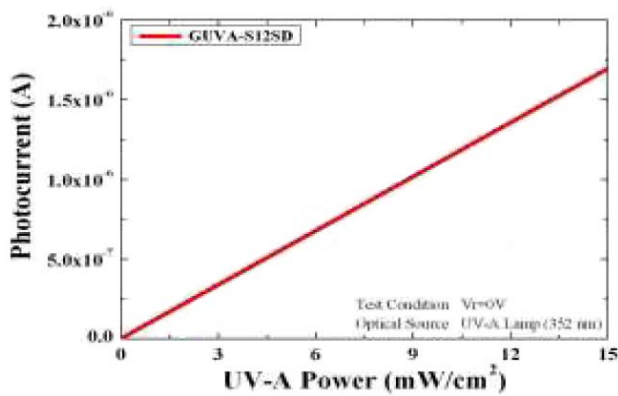




## Responsivity Curve



## Photocurrent along UV Power



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