

UV-A Sensor

GUVA-S12SD



Features

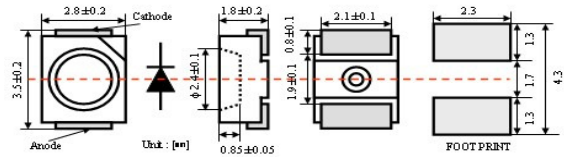
- Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- Good Visible Blindness
- High Responsivity & Low Dark Current



Applications

- UV Index Monitoring
- UV-A Lamp Monitoring

Outline Diagrams and Dimensions



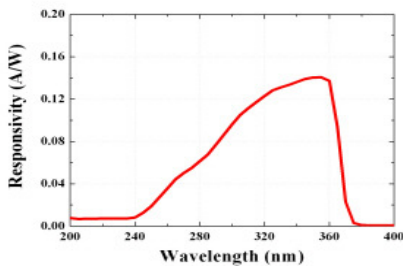
Absolute Maximum Ratings

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.

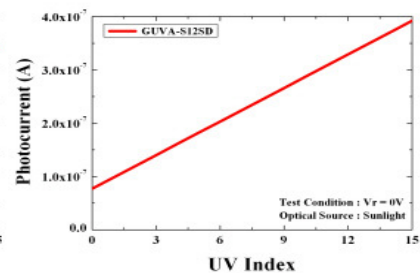
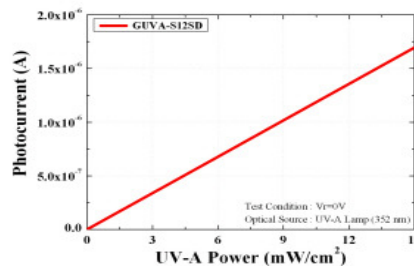
Characteristics (at 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I _d			1	nA	V _r = 0.1 V
Photo Current	I _{ph}		113		nA	UVA Lamp, 1 mW/cm ²
			26		nA	1 UVI
Temperature Coefficient	I _{tc}		0.08		%/°C	UVA Lamp
Responsivity	R		0.14		A/W	λ = 350 nm, V _r = 0 V
Spectral Detection Range	λ	240		370	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

ESD can damage the device hence please avoid ESD.