

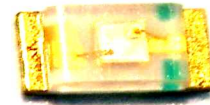


UV-A Sensor

GUVA-S22ED

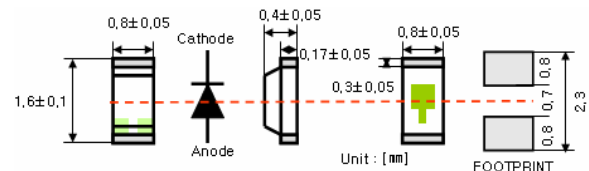


- Features**
- Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - Good Visible Blindness
 - High Responsivity & Low Dark Current



- Applications**
- UV Index Monitoring

Outline Diagrams and Dimensions



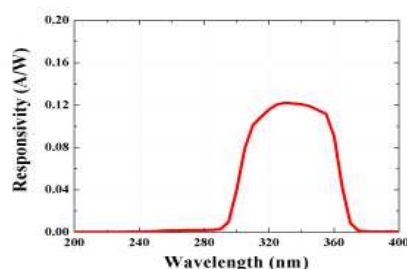
Absolute Maximum Ratings

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 5 sec.

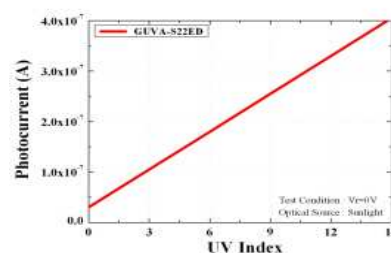
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I _d			1	nA	V _r = 0.1 V
Photo Current	I _{ph}		121		nA	UVA Lamp, 1 mW/cm ²
			25		nA	1 UVI
Temperature Coefficient	I _{tc}		0.08		%/°C	UVA Lamp
Responsivity	R		0.12		A/W	λ = 350 nm, V _r = 0 V
Spectral Detection Range	λ	290		370	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX: 0755-83376182 E-MAIL: szss20@163.com
ESD can damage the device hence please avoid ESD.