

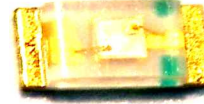
UV-A Sensor

GUVA-S22ED



Features

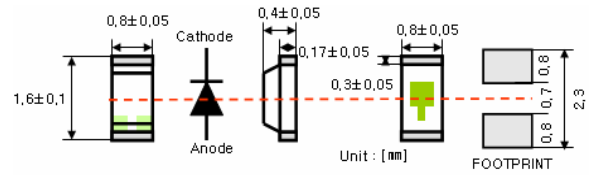
- Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- Good Visible Blindness
- High Responsivity & Low Dark Current



Applications

UV Index Monitoring

Outline Diagrams and Dimensions



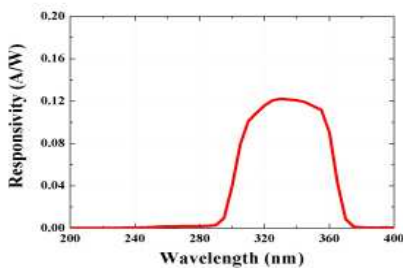
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	$^{\circ}C$	
Operating Temperature	T_{op}	-30	85	$^{\circ}C$	
Reverse Voltage	$V_{r, max.}$		5	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	T_{sol}		260	$^{\circ}C$	within 5 sec.

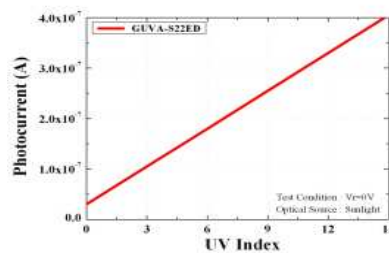
Characteristics (at 25 $^{\circ}C$)

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		%/ $^{\circ}C$	UVA Lamp
Responsivity	R		0.12		A/W	$\lambda = 350 nm, V_r = 0 V$
Spectral Detection Range	λ	290		370	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

ESD can damage the device hence please avoid ESD.