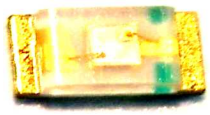
UV-A Sensor

GUVA-S22ED

Features

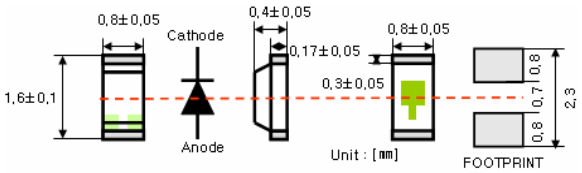
Gallium Nitride Based Material
Schottky-type Photodiode
Photovoltaic Mode Operation
Good Visible Blindness
High Responsivity & Low Dark Current



Applications

UV Index Monitoring

Outline Diagrams and Dimensions



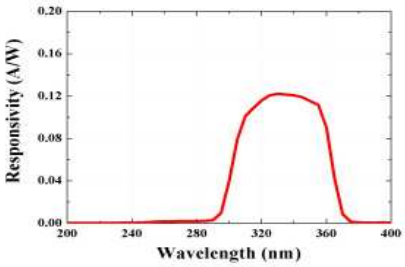
Absolute Maximum Ratings

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

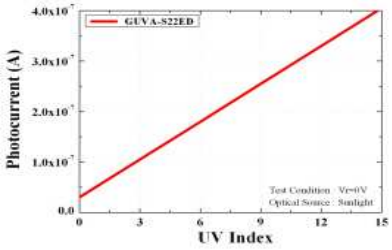
Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	㎁	Vr = 0.1 V
Photo Current	I_{ph}		121		㎁	UVA Lamp, 1㎽/㎠
			25		㎁	1 UVI
Temperature Coefficient	I_{tc}		0.08		%/℃	UVA Lamp
Responsivity	R		0.12		A/W	λ = 350 ㎚, Vr = 0 V
Spectral Detection Range	λ	290		370	㎚	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

ESD can damage the device hence please avoid ESD.