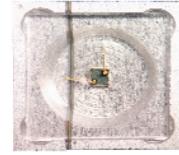


UV-A Sensor

GUVA-S12GD

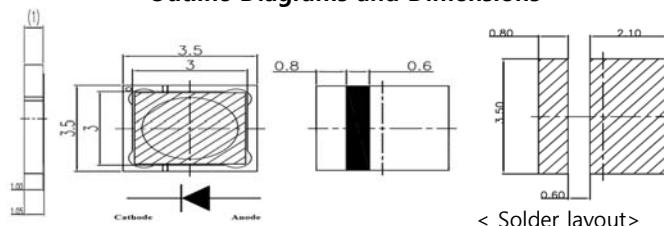


Features	Gallium Nitride Based Material Schottky-type Photodiode Photovoltaic Mode Operation Good Visible Blindness High Responsivity & Low Dark Current
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Applications	UV Index Monitoring UV-A Lamp Monitoring
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Outline Diagrams and Dimensions



Absolute Maximum Ratings

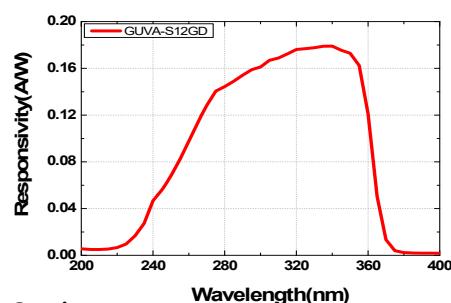
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T _{st}	-40	90	°C	
Operating Temperature	T _{op}	-30	85	°C	
Reverse Voltage	V _{r, max.}		5	V	
Forward Current	I _{f,max.}		1	mA	
Optical Source Power Range	P _{opt}	0.01	100	mW/cm ²	UVA Lamp
Soldering Temperature	T _{sol}		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100mW/cm²

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}		140		nA	UVA Lamp, 1mW/cm ²
			28		nA	1 UVI, Sunlight
Temperature Coefficient	I _{tc}		0.08		%/°C	UVA Lamp
Responsivity	R		0.17		A/W	λ = 350 nm, V _r = 0 V
Spectral Detection Range	λ	230		370	nm	10% of R
Active area			0.076		mm ²	

Responsivity Curve



Caution

ESD can damage the device hence please avoid ESD.

Photocurrent along UV Power

