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Preliminary

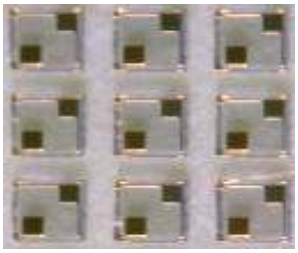
UV-A Sensor

GUVV-CS0PD

(주)제니컴 Genicom

Features

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



Applications

- UV-A Lamp Monitoring
- UV LED Monitoring

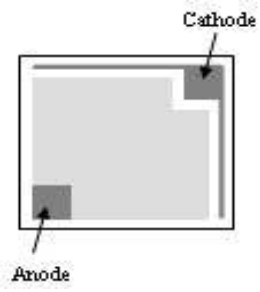
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		2	V	
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

Electro-optical Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	Vr = 0.1 V
Photo Current	I_{ph}		163		nA	UVA Lamp, 1㎽/㎠
Temperature Coefficient	I_{tc}		0.1		%/℃	UVA Lamp
Responsivity	R		0.12		A/W	λ = 350 ㎚, Vr = 0 V
Spectral Detection Range	λ	230		395	㎚	10% of R

Physical Characteristics and Dimensions



Material : GaN / Sapphire
Chip Size : 0.4 × 0.4 ㎟
Active Area : 0.076 ㎟
Pad Size : 0.12 × 0.12 ㎟
Thickness : 0.1 ㎜

Responsivity Curve