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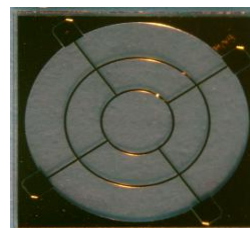


UV-A Sensor GUVA-CS1PD-U



Features

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



Applications

- UV-A Lamp Monitoring
- UV LED Monitoring

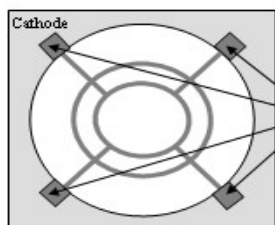
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	°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 10 sec.

Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			90	nA	$V_r = 0.1 V$
Photo Current	I_{ph}		15.6		μA	UVA Lamp, $1 mW/cm^2$
Temperature Coefficient	I_{tc}		0.05		%/°C	UVA Lamp
Responsivity	R		0.18		A/W	$\lambda = 350 nm, V_r = 0 V$
Spectral Detection Range	λ	220		370	nm	10% of R

Physical Characteristics and Dimensions



- Material : GaN / Sapphire
- Chip Size : $3.4 \times 3.4 mm^2$
- Active Area : $6.894 mm^2$
- Pad Size : $0.30 \times 0.30 mm^2$
- Thickness : $120 \mu m$ (Max. $130 \mu m$)

Responsivity Curve

