



UV-C Sensor

GUVV-CS0PD



- Features**
- Aluminium Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - Good Solar Blindness
 - High Responsivity & Low Dark Current



- Applications**
- Pure UV-C Monitoring
 - Sterilization Lamp Monitoring

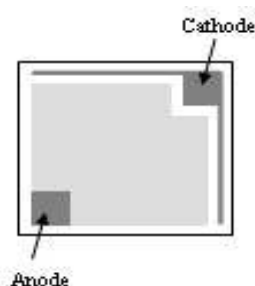
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	$^{\circ}C$	
Operating Temperature	T_{op}	-30	85	$^{\circ}C$	
Reverse Voltage	$V_{r, max.}$		3	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	T_{sol}		260	$^{\circ}C$	within 10 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}		34		nA	UVC Lamp, 1 mW/cm 2
Temperature Coefficient	I_{tc}		-0.07		%/ $^{\circ}C$	UVC Lamp
Responsivity	R		0.06		A/W	$\lambda = 254 nm, V_r = 0 V$
Spectral Detection Range	λ	210		280	nm	10% of R

Physical Characteristics and Dimensions



Material : AlGa N / Sapphire
 Chip Size : 0.4 \times 0.4 mm 2
 Active Area : 0.076 mm 2
 Pad Size : 0.12 \times 0.12 mm 2
 Thickness : 0.1 mm

Responsivity Curve

