



# Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



## UV-C Sensor GUVC-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

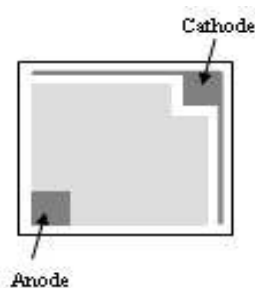
### Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90	°C	
Operating Temperature	$T_{op}$	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		3	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	$I_d$			1	nA	$V_r = 0.1$ V
Photo Current	$I_{ph}$		34		nA	UVC Lamp, 1 mW/cm <sup>2</sup>
Temperature Coefficient	$I_{tc}$		-0.07		%/°C	UVC Lamp
Responsivity	R		0.06		A/W	$\lambda = 254$ nm, $V_r = 0$ V
Spectral Detection Range	$\lambda$	210		280	nm	10% of R

### Physical Characteristics and Dimensions



Material : AlGa<sub>N</sub> / Sapphire  
 Chip Size : 0.4 × 0.4 mm<sup>2</sup>  
 Active Area : 0.076 mm<sup>2</sup>  
 Pad Size : 0.12 × 0.12 mm<sup>2</sup>  
 Thickness : 0.1 mm

### Responsivity Curve

