



Electro Optical Components, Inc.

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UV-C Sensor GUVCS0PD



- 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

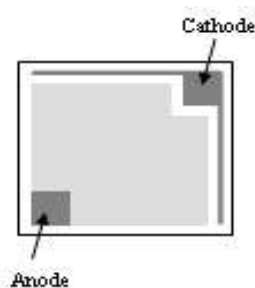
Absolute Maximum Ratings

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 ²
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	λ	210		280	nm	10% of R

Physical Characteristics and Dimensions



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

Responsivity Curve

