



Electro Optical Components, Inc.

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

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



Preliminary

UV-A Sensor GUVV-CS0PD



- 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

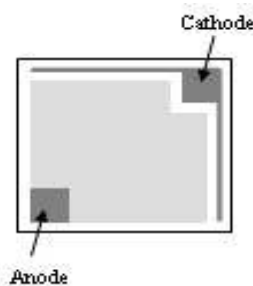
Absolute Maximum Ratings

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

Electro-optical 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}		163		nA	UVA Lamp, 1 mW/cm^2
Temperature Coefficient	I_{tc}		0.1		%/°C	UVA Lamp
Responsivity	R		0.12		A/W	$\lambda = 350$ nm, $V_r = 0$ V
Spectral Detection Range	λ	230		395	nm	10% of R

Physical Characteristics and Dimensions



Material : GaN / Sapphire
 Chip Size : $0.4 \times 0.4 \text{ mm}^2$
 Active Area : 0.076 mm^2
 Pad Size : $0.12 \times 0.12 \text{ mm}^2$
 Thickness : 0.1 mm

Responsivity Curve

