



# Electro Optical Components, Inc.

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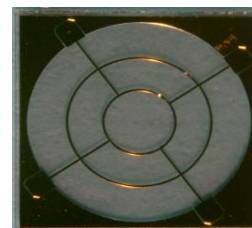


## UV-A Sensor GUVA-CS1PD-U



### 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

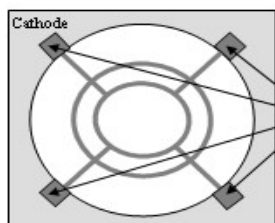
### Absolute Maximum Ratings

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		$\mu A$	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	$\lambda$	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

