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

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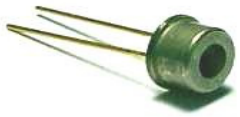
UV-A Sensor

GUVA-T11GD

Genuine UV Technology

Features

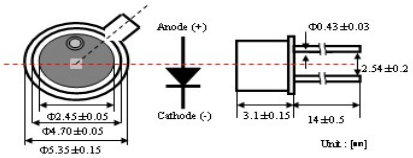
- Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- Good Visible Blindness
- High Responsivity & Low Dark Current



Applications

- Full UV Band Monitoring
- UV-A Lamp Monitoring
- Sterilization Lamp Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

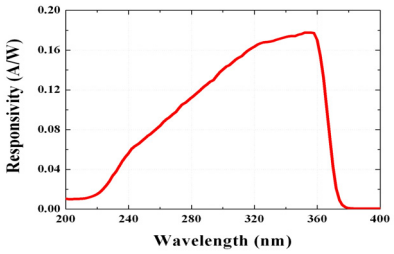
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		5	V	
Forward Current	$I_{f,max.}$		1	㎃	
Optical Source Power Range	P_{opt}	0.1	100,000	㎼/㎠	UVA Lamp
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100,000㎼/㎠.

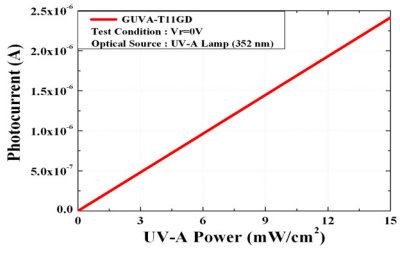
Characteristics (at 25℃)

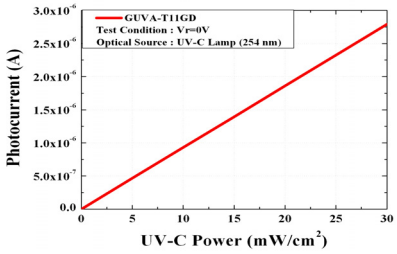
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	Vr = 0.1 V
Photo Current	I_{ph}		161		nA	UVA Lamp, 1㎽/㎠
			93		nA	UVC Lamp, 1㎽/㎠
Temperature Coefficient	I_{tc}		0.05		%/℃	UVA Lamp
Responsivity	R		0.18		A/W	λ = 350 ㎚, Vr = 0 V
Spectral Detection Range	λ	220		370	㎚	10% of R
Active area			0.076		㎟	

Responsivity Curve



Photocurrent along UV Power





Caution

ESD can damage the device hence please avoid ESD.

Insulate the cap of TO-CAN or it can cause malfunction of the device.