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UV-B Sensor

GUVB-T11GD-L

Genuine UV Technology

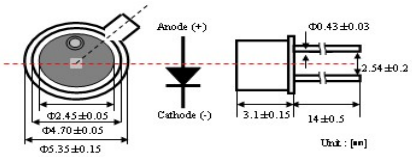
Features

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

Applications

- UV-B Lamp Monitoring
- UV-B LED Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

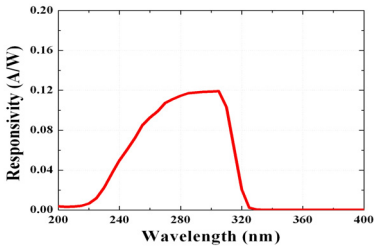
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		3	V	
Forward Current	$I_{f,max.}$		1	㎃	
Optical Source Power Range	P_{opt}	0.01	100,000	㎼/㎠	UVB Lamp
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

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

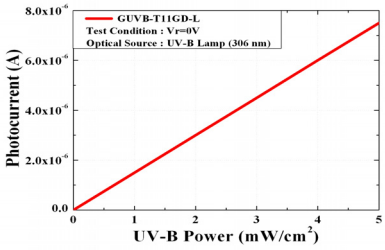
Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			20	㎁	Vr = 0.1 V
Photo Current	I_{ph}		1.5		㎂	UVB Lamp, 1㎽/㎠
Temperature Coefficient	I_{tc}		0.1		%/℃	UVB Lamp
Responsivity	R		0.13		A/W	λ = 300 ㎚, Vr = 0 V
Spectral Detection Range	λ	220		320	㎚	10% of R
Active area			1.536		㎟	

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.