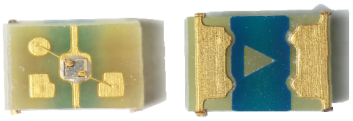
UV-B Sensor

GUVB-C21SD

Genuine UV Technology

Features

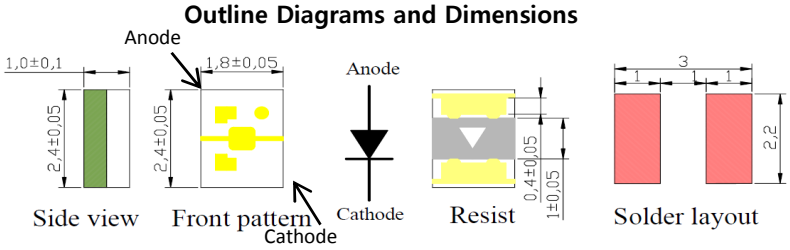
Aluminium Gallium Nitride Based Material
Schottky-type Photodiode
Photovoltaic Mode Operation
Good Visible Blindness
High Responsivity & Low Dark Current



Applications

UV Index Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

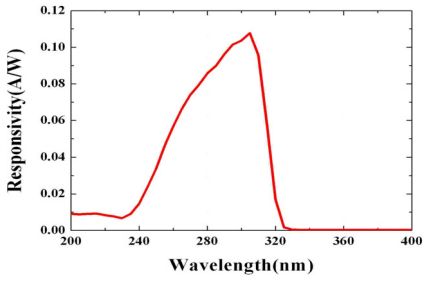
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		3	V	
Forward Current	$I_{f,max.}$		1	㎃	
Optical Source Power Range	P_{opt}	0.1μ	100m	W/㎠	UVB Lamp
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100㎽/㎠

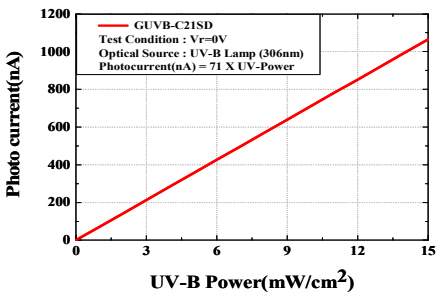
Characteristics (at 25℃)

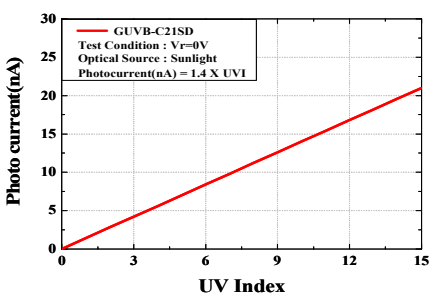
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	Vr = 0.1 V
Photo Current	I_{ph}	64	71	78	nA	UVB Lamp, 1㎽/㎠
			1.4		nA	1 UVI
Temperature Coefficient	I_{tc}		0.1		%/℃	UVB Lamp
Responsivity	R		0.11		A/W	λ = 300 ㎚, Vr = 0 V
Spectral Detection Range	λ	240		320	㎚	10% of R
Active area			0.076		㎟	

Responsivity Curve



Photocurrent along UV Power





Caution

ESD can damage the device hence please avoid ESD.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Genicom:

GUVB-T21GH GUVC-T20GD-U GUVV-T13GD-L GVBL-T14GD GUVA-C22SD GUVB-T11GM-LA
GUVCL-T21GH GUVV-S10SM-LA GUVA-T11GD GUVA-T21GD-U GUVA-T21GH GUVA-T31GD
GUVB-C21SD GUVB-S11SD GUVB-T11GD GUVCL-T10GD GUVA-T11GD-L GUVC-T10GD-L185
GVBL-S12SD GUVB-S31GD GUVB-T21GD-U GUVC-S10GD GUVC-T10GM-LA GUVV-T10GD
GVGR-T11GD GUVC-T21GH GUVV-S10SD GUVA-S12SD GUVC-T10GD-L GVGR-S11SD