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<Preliminary Version>

FUV(Far UV) Sensor Module

GFUV-T10GM-LA-L

Genuine UV Technology genUV

Description

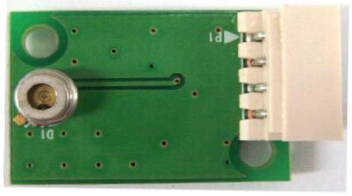
Genicom UV sensors make the photocurrent under UV light but its level is very low.
Therefore the output current has to be amplified by proper gain to anolog voltage.

Features

- Single Supply Voltage, 0-5V Voltage Output

Applications

Far UV Lamp Monitoring(222nm) ,Excimer Lamp Monitoring



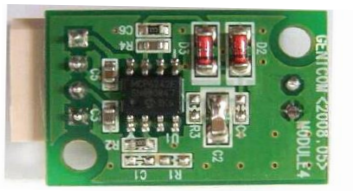


Fig1. Board Overview (Size : 28×17×9 ㎜)

Fig2. Wiring Connections

Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T_{st}	-40		90	℃	
Operating Temperature	T_{op}	-30		85	℃	
Supply Voltage	V_{cc}		5		V	DC
Soldering Temperature	T_{sol}			260	℃	Within 10 sec

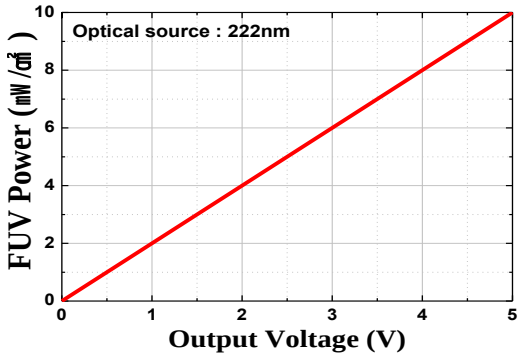
Electro-Optical Characteristics (at 25 ℃)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V_{cc}		5		V	DC
Operating Current	I_Q		0.05		㎃	
Spectral Detection Range	λ		222		㎚	Far UV
Output Voltage	V_{out}	0		5	V	
Detection Power Range*	P	0		10	㎽/㎠	Vcc = 5V
Response Time	T		10		㎳	

*Reference meter: Hamamatsu H9535-222

*Optical source: Edenpark illumination(222nm)

FUV Power along Output Voltage



FUV Power (㎽/㎠) = Vout (V) × 2

※Caution

ESD can damage the device hence please avoid ESD. Insulate the cap of TO-CAN or it can cause malfunction of the device.