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UV Sensor Module

GUVA-S12SM-LA

Genuine UV Technology GenUV

Description

UV sensors of Genicom make the photocurrent under UV light but the level of photocurent is very low. This small signal is noteasy to be checked by normal current measure equipments and it is not to fit input signal of analog-to-digital converter (ADC).

Features

Single Supply Voltage
Voltage Output

Applications

UV Index monitoring
UV Lamp monitoring

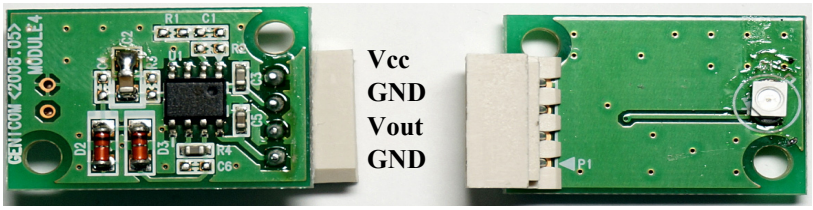


Fig1. Board Overview (Size : 28×17×9 ㎜³)

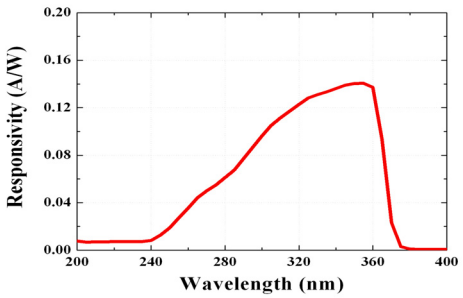
Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40		90	℃	
Operating Temperature	T_{op}	-30		85	℃	
Supply Voltage	Vcc	1.8		5.5	VDC	
Soldering Temperature	Tsol			260	℃	Within 10 sec

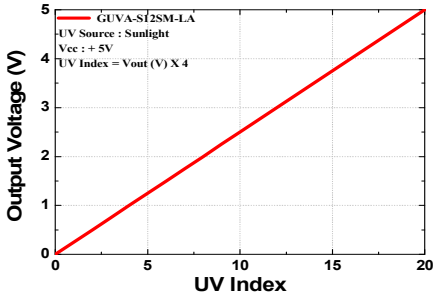
Electro-Optical Characteristics (at 25 ℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Supply Voltage	V_{cc}	1.8		5.5	V	DC
Supply Current	I_Q		0.05		㎃	
Spectral Detection Range	λ	240		370	nm	10% of Max.
Output Voltage	V_{out}	0		5	Vdc	
Detection Power Range	P	0		20	UV Index	Vcc =5V
Response Time	T		10		㎳	

Relative Responsivity



Output Voltage along UV power



Caution

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