

UV Sensor Module

GUVV-S10SM-LA



Description

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

Features

- Single Supply Voltage
- Voltage Output

Applications

- UV Lamp monitoring
- UV LED monitoring

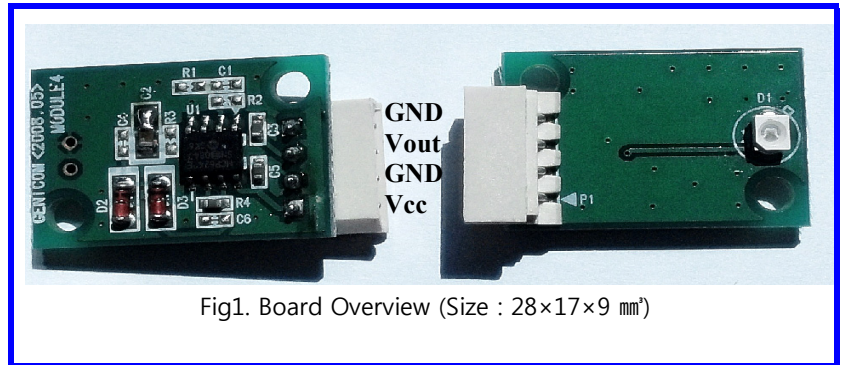


Fig1. Board Overview (Size : 28x17x9 mm)

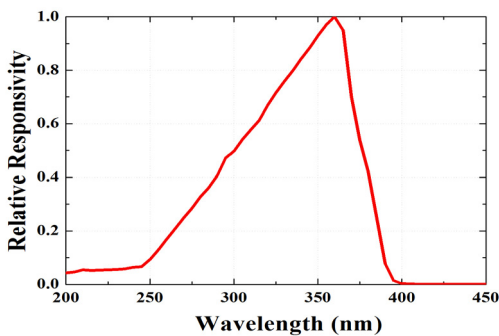
Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40		90	°C	
Operating Temperature	T_{op}	-30		85	°C	
Supply Voltage	V_{cc}	1.8		5.5	VDC	
Soldering Temperature	T_{sol}			260	°C	Within 10 sec

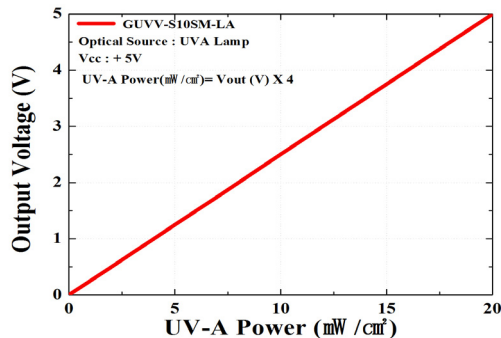
Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Supply Voltage	V_{cc}	1.8		5.5	V	DC
Supply Current	I_Q		0.05		mA	
Spectral Detection Range	λ	240		395	nm	10% of Max.
Output Voltage	V_{out}	0		5	Vdc	
Detection Power Range	P	0		20	mW/cm ²	$V_{cc} = 5V$
Response Time	T		10		ms	

Relative Responsivity



Output Voltage along UV power



Caution

ESD can damage the device hence please avoid ESD.