

UV Sensor Module

GUVA-S12SM-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 Index monitoring
- UV Lamp monitoring



Fig1. Board Overview (Size : 28×17×9 mm³)

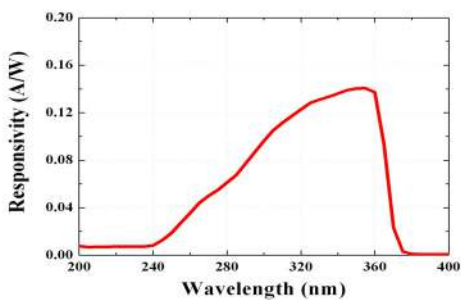
Absolute Maximum Ratings

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

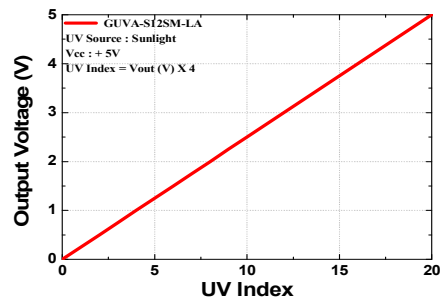
Electro-Optical Characteristics (at 25 °C)

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		370	nm	10% of Max.
Output Voltage	V _{out}	0		5	Vdc	
Detection Power Range	P	0		20	UV Index	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. Insulate the cap of SMD or it can cause malfunction of the device.