

# UV Sensor Module

## GUVB-T11GM-LA



### Description

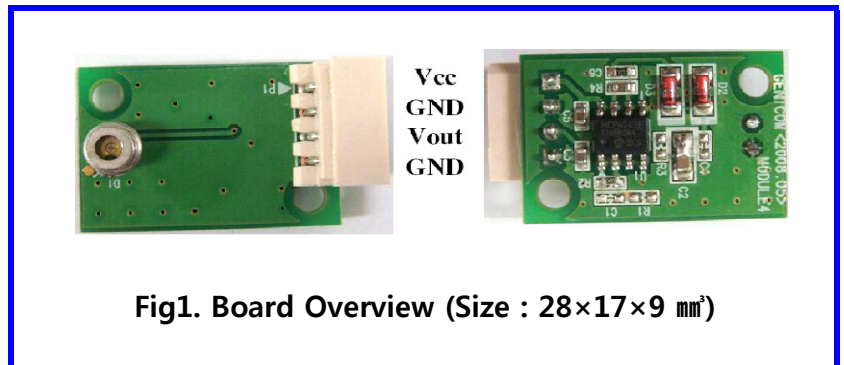
UV sensors of Genicom make the photocurrent under UV light but the level of photocurrent is very low. This small signal is not easy to be checked by normal current measure equipments and it is not to fit input signal of analog-to-digital converter (ADC).

### Features

- Single Supply Voltage
- Voltage Output

### Applications

- UVB Lamp Monitoring



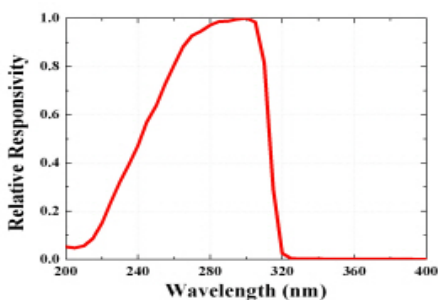
### Absolute Maximum Ratings

| Parameter             | Symbol           | Min. | Typ. | Max. | Unit | Remark        |
|-----------------------|------------------|------|------|------|------|---------------|
| Storage Temperature   | T <sub>st</sub>  | -40  |      | 90   | °C   |               |
| Operating Temperature | T <sub>op</sub>  | -30  |      | 85   | °C   |               |
| Supply Voltage        | V <sub>cc</sub>  | 1.8  |      | 5.5  | VDC  |               |
| Soldering Temperature | T <sub>sol</sub> |      |      | 260  | °C   | Within 10 sec |

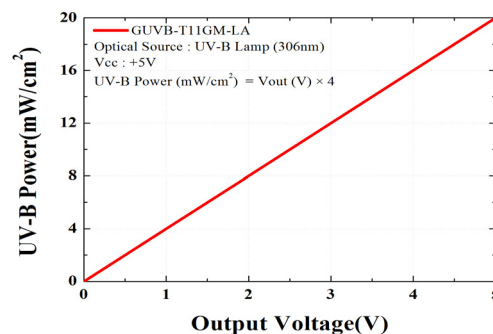
### Electro-Optical Characteristics (at 25 °C)

| Parameter                | Symbol           | Min. | Typ. | Max. | Unit               | Remark              |
|--------------------------|------------------|------|------|------|--------------------|---------------------|
| Supply Voltage           | V <sub>cc</sub>  | 1.8  |      | 5.5  | V                  | DC                  |
| Supply Current           | I <sub>Q</sub>   |      | 0.05 |      | mA                 |                     |
| Spectral Detection Range | λ                | 220  |      | 320  | nm                 | 10% of Max.         |
| Output Voltage           | V <sub>out</sub> | 0    |      | 5    | Vdc                |                     |
| Detection Power Range    | P                | 0    |      | 20   | mW/cm <sup>2</sup> | V <sub>cc</sub> =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 TO-CAN or it can cause malfunction of the device.