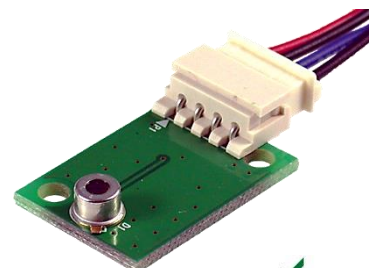




GUVA-T11GM-LA

- UV Sensor Module
- UVA, 220-370 nm
- Single Supply Voltage
- Output signal: 0 – 5 VDC
- Dimension: 28 x 17 x 9 mm



Description

GUVA-T11GM-LA is a UVA sensor module working in the spectral range of 220-370 nm. It contains UV detector GUA-T11GD and additional electronic components for fast preliminary experiments. The low level photocurrent will be converted into an **output voltage** between **0-5 V** and can be further used as your ADC input.

Absolute Maximum Ratings

| Parameter | Symbol | Values | Unit |
|-------------------------|------------|-----------|------|
| Supply Voltage (DC) | V_{CC} | 1.8 – 5.5 | V |
| Operating Temperature | T_{CASE} | -30 – +85 | °C |
| Storage Temperature | T_{STG} | -40 – +90 | °C |
| Soldering Temperature * | T_{SLD} | 260 | °C |

* must be completed within 10 seconds

Electro-Optical Characteristics

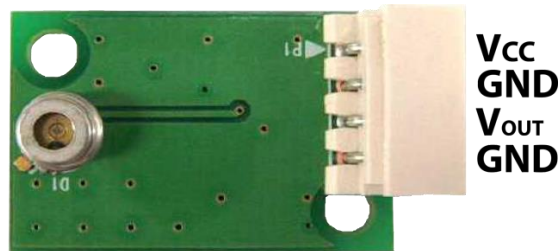
$T_{CASE} = 25^{\circ}C$

| Parameter | Symbol | Values | Unit |
|--|-----------|-----------|--------------------|
| Supply Voltage (DC) | V_{CC} | 1.8 – 5.5 | V |
| Supply Current | I_Q | typ. 0.05 | mA |
| Spectral Detection Range (10% of Max.) | λ | 220 – 370 | nm |
| Output Voltage (DC) | V_{out} | 0 – 5 | V |
| Detection Power Range ($V_{CC}=5V$) | P | 0 – 20 | mW/cm ² |
| Response Time | T | 10 | ms |



Outline Dimensions

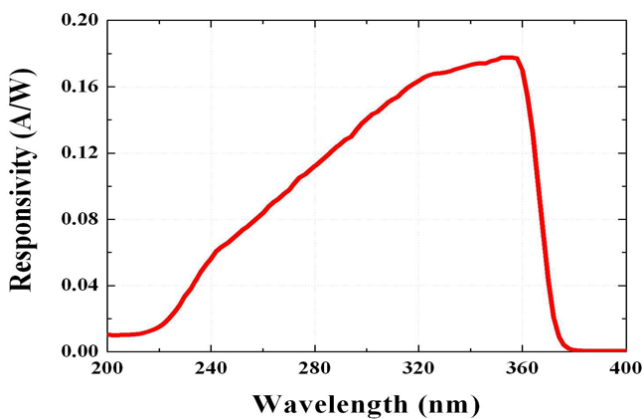
GUVA-T11GM-LA



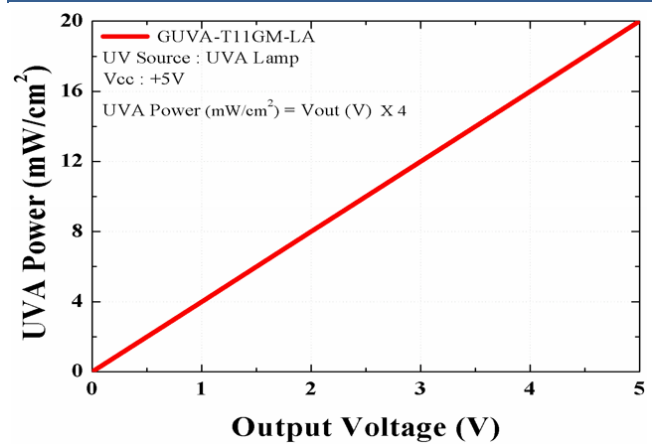
28 x 17 x 9 mm

Typical Performance Curves

Relative Responsivity



Output Voltage vs. 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.

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