



GUVV-T10GM-LA

- UV Sensor Module
- UVC, 220-280 nm
- Single Supply Voltage
- Output signal: 0 – 5 VDC
- Dimension: 28 x 17 x 9 mm



Description

GUVV-T10GM-LA is a UVC sensor module working in the spectral range of 220-280 nm. It contains UV detector GUVV-T10GD 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

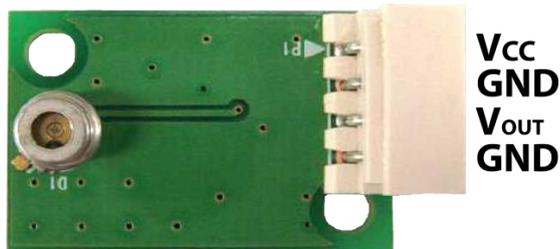
$T_{CASE} = 25^{\circ}C$

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 – 280	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

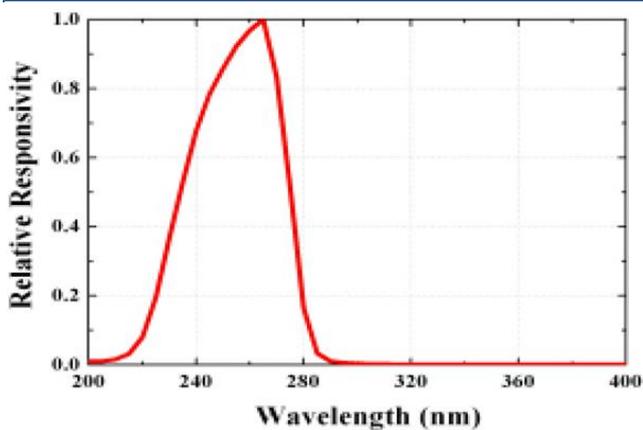
GUVC-T10GM-LA



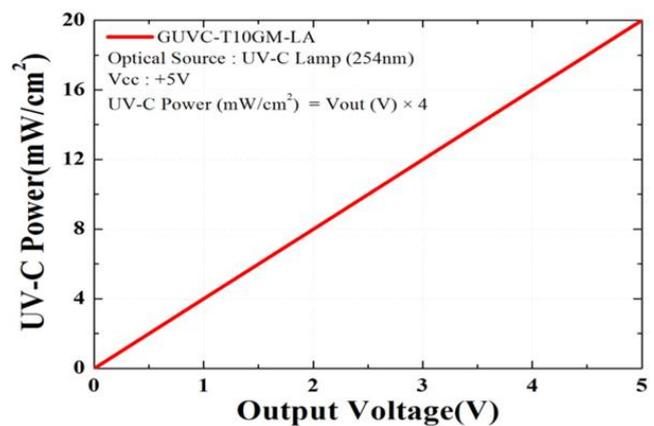
28 x 17 x 9 mm

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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The above specifications are for reference purpose only and subjected to change without prior notice