

# UV-C Sensor

## GUVC-T10GD-L



### Features

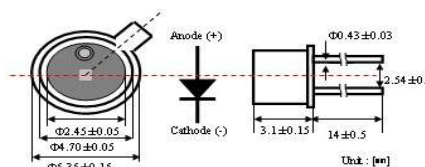
Aluminium Gallium Nitride Based Material  
Schottky-type Photodiode  
Photovoltaic Mode Operation  
Good Solar Blindness



### Applications

Pure UV-C Monitoring  
Sterilization Lamp Monitoring

### Outline Diagrams and Dimensions



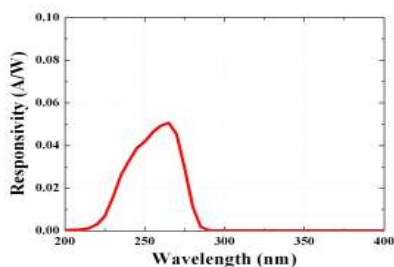
### Absolute Maximum Ratings

| Parameter             | Symbol        | Min. | Max. | Unit | Remark         |
|-----------------------|---------------|------|------|------|----------------|
| Storage Temperature   | $T_{st}$      | -40  | 90   | °C   |                |
| Operating Temperature | $T_{op}$      | -30  | 85   | °C   |                |
| Reverse Voltage       | $V_{r, max.}$ |      | 2    | V    |                |
| Forward Current       | $I_{f, max.}$ |      | 1    | mA   |                |
| Soldering Temperature | $T_{sol}$     |      | 260  | °C   | within 10 sec. |

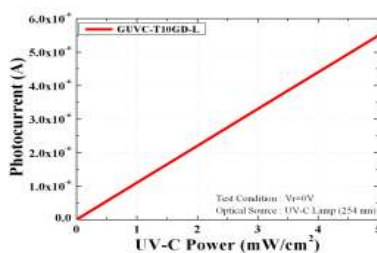
### Characteristics (at 25°C)

| Parameter                | Symbol    | Min. | Typ.  | Max. | Unit    | Test Conditions                 |
|--------------------------|-----------|------|-------|------|---------|---------------------------------|
| Dark Current             | $I_d$     |      |       | 10   | nA      | $V_r = 0.1$ V                   |
| Photo Current            | $I_{ph}$  |      | 1.1   |      | $\mu$ A | UVC Lamp, $1 \text{ mW/cm}^2$   |
| Temperature Coefficient  | $I_{tc}$  |      | -0.07 |      | %/°C    | UVC Lamp                        |
| Responsivity             | R         |      | 0.05  |      | A/W     | $\lambda = 254$ nm, $V_r = 0$ V |
| Spectral Detection Range | $\lambda$ | 210  |       | 280  | nm      | 10% of R                        |

### Responsivity Curve



### Photocurrent along UV Power



### Caution