

UV-C Sensor

GUVC-T10GD



Features

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

Applications

- Pure UV-C Monitoring
- Sterilization Lamp Monitoring

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 | $V_{r, max.}$ | | 3 | 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 | | | 1 | nA | $V_r = 0.1V$ |
| Photo Current | I_{ph} | | 110 | | nA | UVA Lamp, 1mW/cm ² |
| Temperature Coefficient | I_{tc} | | -0.07 | | %/°C | UVA Lamp |
| Responsivity | R | | 0.06 | | A/W | $\lambda = 350nm,$ $V_r = 0V$ |
| Spectral Detection Range | λ | 210 | | 280 | nm | |
| Breakdown Voltage | V_{BR} | | 5 | | | $I_r = 1\mu A$ |

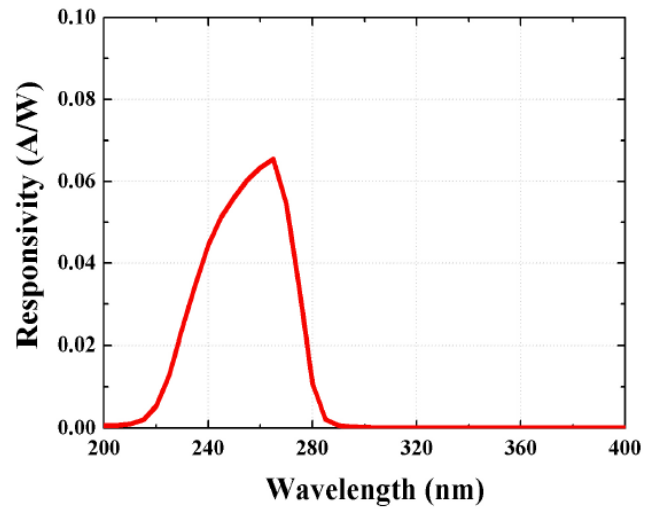
OEC



Opto-Electronic
Components



Responsivity Curve



Outline Diagrams and Dimensions

