



UV / Visible Sensor GVGR-T10GD

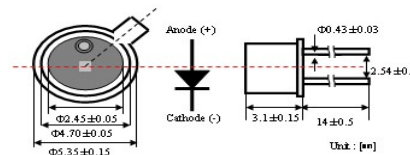


- Features**
- TO-46 with quartz glass
 - Indium Gallium Nitride Based Material
 - PN-type Photodiode
 - Photovoltaic Mode Operation
 - High Responsivity & Low Dark Current



- Applications**
- UV LED Monitoring (385, 405nm, etc.)
 - Blue LED Monitoring
 - UVA Lamp Monitoring
 - UV Curing

Outline Diagrams and Dimensions



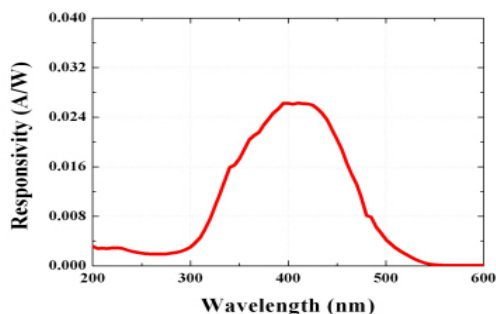
Absolute Maximum Ratings

| Parameter | Symbol | Min. | Max. | Unit | Remark |
|-----------------------|---------------|------|------|------|----------------|
| Storage Temperature | T_{st} | -40 | 90 | °C | |
| Operating Temperature | T_{op} | -30 | 85 | °C | |
| Reverse Voltage | $V_{r, max.}$ | | 5 | V | |
| Forward Current | $I_{f, max.}$ | | 1 | mA | |
| Soldering Temperature | T_{sol} | | 260 | °C | within 10 sec. |

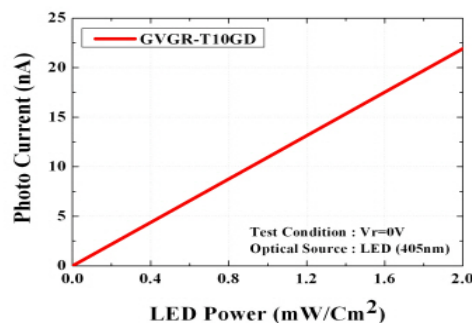
Characteristics (at 25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|--------------------------|-----------|------|-------|------|------|-------------------------------|
| Dark Current | I_d | | | 1 | nA | $V_r = 0.1 V$ |
| Photo Current | I_{ph} | | 11 | | nA | LED (405nm), $1mW/cm^2$ |
| Temperature Coefficient | T_c | | -0.08 | | %/°C | |
| Responsivity | R | | 0.026 | | A/W | $\lambda = 405 nm, V_r = 0 V$ |
| Spectral Detection Range | λ | 300 | | 510 | nm | 10% of R |

Responsivity Curve



Photocurrent along LED 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.