



GVGR-T10GD

- PN-type Photodiode
- Indium Gallium Nitride Based Material
- 300 – 510 nm
- Photovoltaic Operation Mode
- TO-46 Package



Description

GVGR-T10GD is a Photodiode working in the spectral range of 300 – 510 nm. It contains an Indium Gallium Nitride based chip die, housed into TO-46 package. It is a great solution, as example for applications like blue LED monitoring, UV curing or UV LED monitoring.

Absolute Maximum Ratings

Parameter	Symbol	Values	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_{OP}	1	mA
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

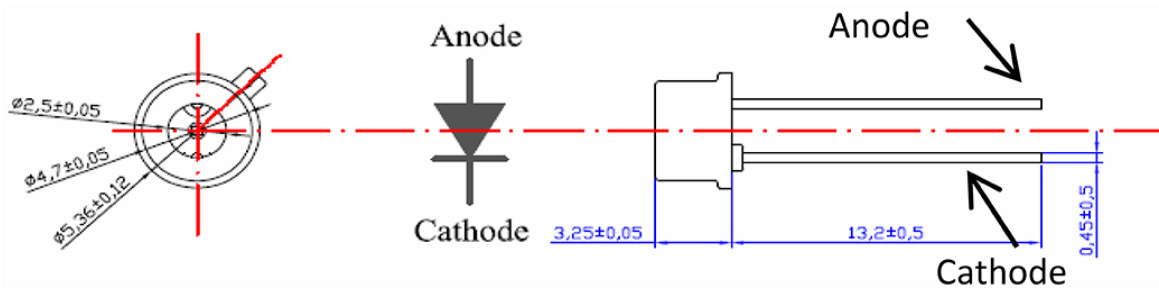
$T_{CASE} = 25^\circ\text{C}$

Parameter	Symbol	Values	Unit
Dark Current ($V_R=0.1\text{V}$)	I_D	max. 1	nA
Photo Current (LED 405nm, 1mW/cm ²)	I_{PH}	typ. 11	nA
Temperature Coefficient	T_C	Typ. -0.08	%/°C
Responsivity (405nm, $V_R=0\text{V}$)	R	typ. 0.026	A/W
Spectral Detection Range	λ	300 – 510	nm
Active Area	A		mm ²



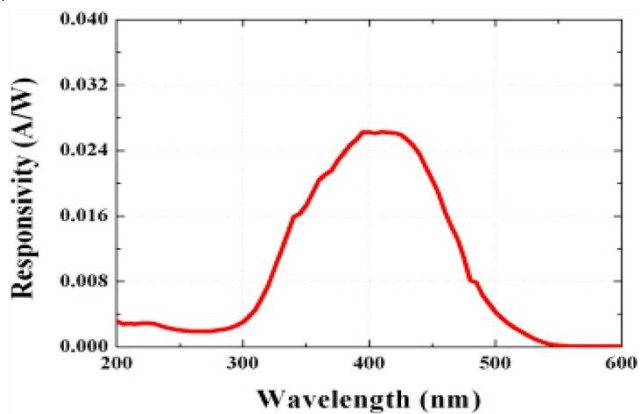
Outline Dimensions

GVGR-T10GD

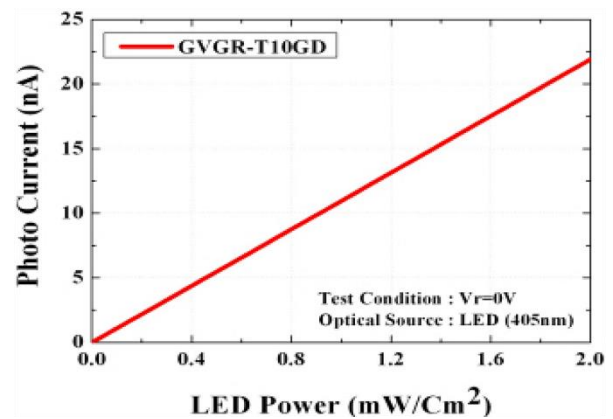


Typical Performance Curves

Relative Responsivity



Photocurrent along LED Power



Caution

ESD can damage the device hence please avoid ESD.

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