



ROITHNER LASERTECHNIK GmbH

WIEDNER HAUPTSTRASSE 76
TEL. +43 1 586 52 43 -O. FAX. -44

1040 VIENNA AUSTRIA
OFFICE@ROITHNER-LASER.COM



GVBL-T14GD

- PN-type UV Photodiode
- InGaN based
- 345 – 445 nm
- TO-46 Package



Description



GVBL-T14GD is InGaN based PN-type UV broadband photodiode in metal TO-46 package with high Responsivity & low dark current. It is intended for photovoltaic mode operation, and is primarily used for UV LED monitoring.

Maximum Ratings*

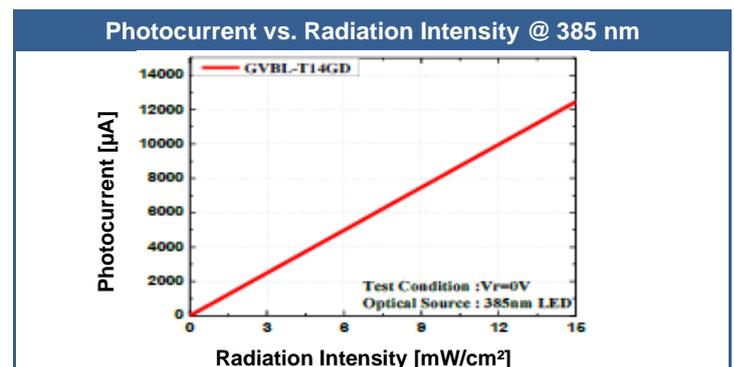
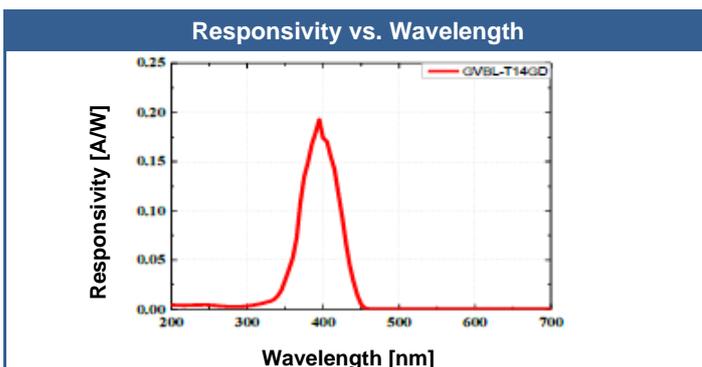
Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	U_R		5	V
Forward Current	I_F		1	mA
Dark Current ($V_R = 0.1$ V)	I_D		1	nA
Operating Temperature	T_{OP}	- 30	+ 85	°C
Storage Temperature	T_{ST}	- 40	+ 90	°C
Lead Solder Temperature ($t_{max.}$ 10s)	T_{SLD}		+ 260	°C

*Operating close to or exceeding these parameters may damage the device

Electro-Optical Characteristics ($T_{CASE} = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Spectral Detection Range	λ_D	10% of R	345		445	nm
Photo Current	I_P	385nm, 1 mW/cm ²		830		nA
Responsivity	R	$\lambda = 385$ nm, $V_R = 0$ V		0.17		A/W
Viewing Angle	θ			120		degree

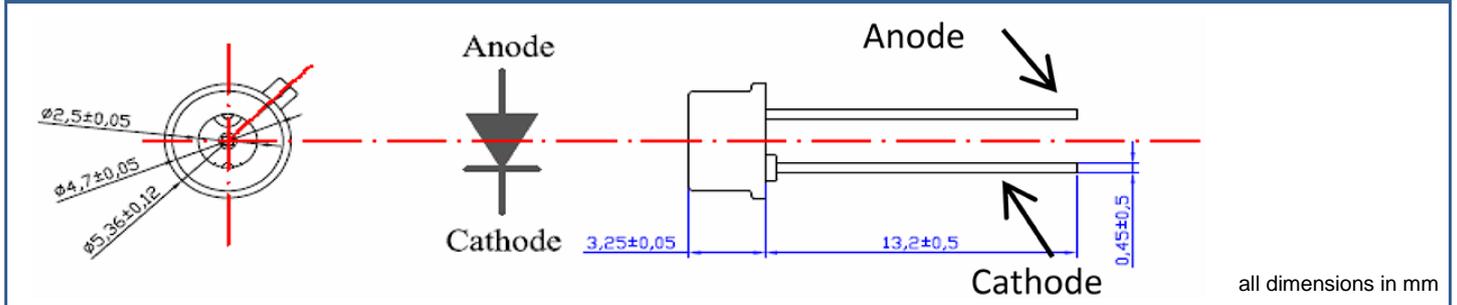
Typical Performance Curves





Outline Dimensions

TO-46



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