

## FEATURES

- 365nm UVB response
- Visible & NIR blind
- Photovoltaic operation
- High shunt resistance

## DESCRIPTION

The **PDU-G101A** is a GaN UV photodiode with a spectral range from 200nm to 365nm and is ideal for UVB sensing applications available in a TO-46 can package.

## APPLICATIONS

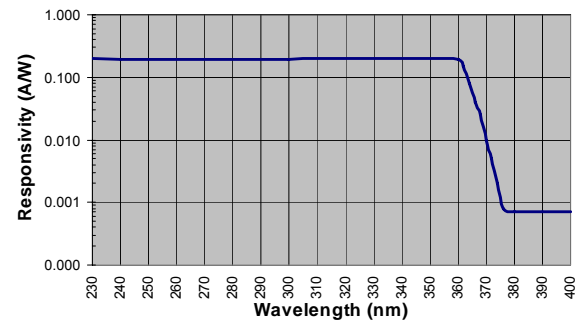
- UVB power meters
- Sun dosimeters
- UV epoxy curing
- UV instrumentation

## ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>BR</sub>	Reverse Voltage		5	V
T <sub>STG</sub>	Storage Temperature	-40	+90	°C
T <sub>O</sub>	Operating Temperature	-30	+85	°C
T <sub>S</sub>	Soldering Temperature*		+260	°C

\* 1/16 inch from case for 3 seconds max.

## SPECTRAL RESPONSE



## ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>SC</sub>	Short Circuit Current	UVI = 1		1		nA
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 1V		0.05	1	nA
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = 10 mV	0.45	1		GΩ
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 0V, f = 1 MHz		24		pF
λ <sub>range</sub>	Spectral Application Range	Spot Scan	200		365	nm
R	Responsivity	λ = 350nm V, V <sub>R</sub> = 0 V		0.10		A/W
V <sub>BR</sub>	Breakdown Voltage	I = 1μA		10		V
NEP	Noise Equivalent Power	V <sub>R</sub> = 10V @ λ = Peak		1X10 <sup>-13</sup>		W/√Hz
t <sub>r</sub>	Response Time	RL = 1KΩ, V <sub>R</sub> = 1V		10	15	nS