

### FEATURES

- Narrow response
- Daylight filtered
- Low cost

### DESCRIPTION

The **PDI-G103** is a GaAIAs photodiode with a spectral peak at 880nm and is immune to other ambient light. It is packaged in a TO-46 can package.

### APPLICATIONS

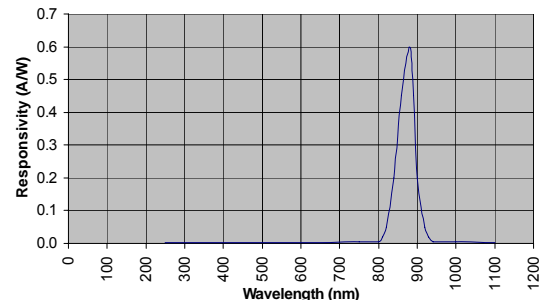
- I.R. LED sensor
- I.R. links
- Industrial controls
- I.R. proximity sensor

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>BR</sub>	Reverse Voltage		100	V
T <sub>STG</sub>	Storage Temperature	-55	+100	°C
T <sub>O</sub>	Operating Temperature	-40	+100	°C
T <sub>S</sub>	Soldering Temperature*		+240	°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	H = 100 fc, 2850 K	5	6		μA
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 5V		0.2	2	nA
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = 10 mV	1	3		GΩ
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 5V, f = 1 MHz		90		pF
λ range	Spectral Application Range	Spot Scan	840		940	nm
R	Responsivity	λ = 880nm V, V <sub>R</sub> = 0 V		0.60		A/W
V <sub>BR</sub>	Breakdown Voltage	I = 10 μA	20	30		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 = 50 Ω, V <sub>R</sub> = 5V		190		nS

\*\*Response time of 10% to 90% is specified at 660nm wavelength light.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.