

**FEATURES**

- Red enhanced
- Photovoltaic
- High quantum efficiency

**DESCRIPTION**

The **PDB-V612-2** is a silicon, planar diffused, red enhanced solderable photodiode that comes in PVC wire leads .

**APPLICATIONS**

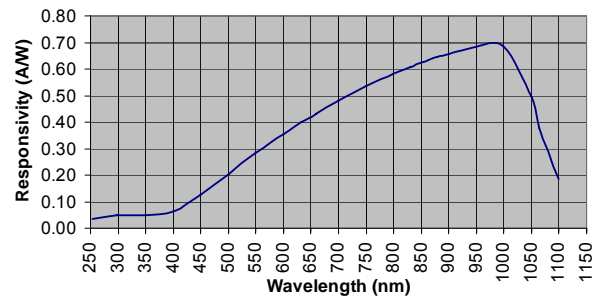
- Optical encoder
- Position sensor
- Industrial controls
- Instrumentation

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>BR</sub>	Reverse Voltage		25	V
T <sub>STG</sub>	Storage Temperature	-40	+125	°C
T <sub>O</sub>	Operating Temperature	-40	+100	°C
T <sub>S</sub>	Soldering Temperature*		+224	°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	720	800		μA
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 5 V		40	80	nA
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = 10 mV	7	15		MΩ
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 0 V, f = 1 MHz		9000		pF
λ range	Spectral Application Range	Spot Scan	350		1100	nm
V <sub>BR</sub>	Breakdown Voltage	I = 10 μA	5	15		V
NEP	Noise Equivalent Power	V <sub>R</sub> = 0V @ λ = Peak		2.2x10 <sup>-13</sup>		W/√Hz
t <sub>r</sub>	Response Time	RL = 1KΩ, V <sub>R</sub> = 0 V		2800		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.