

FEATURES

- Large active area
- Photoconductive
- Low cost
- Lead frame

DESCRIPTION

The **PDB-C170** is a PIN silicon photodiode in a photoconductive mode packaged in a water clear plastic sidelooker package.

APPLICATIONS

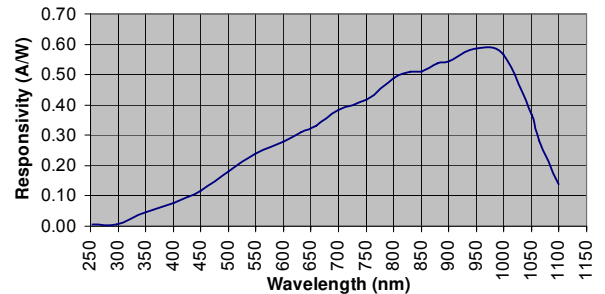
- Oximeters
- Dimmers
- TV & VCR remotes
- Bar code

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T _{STG}	Storage Temperature	-40	+100	°C
T _O	Operating Temperature	-40	+80	°C
T _S	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 _{SC}	Short Circuit Current	H = 100 fc, 2850 K	22	27		μA
I _D	Dark Current	V _R = 10 V		200	600	pA
R _{SH}	Shunt Resistance	V _R = 10 mV	200	500		MΩ
C _J	Junction Capacitance	V _R = 10 V, f = 1 MHz		30		pF
λ range	Spectral Application Range	Spot Scan	350		1100	nm
V _{BR}	Breakdown Voltage	I = 10 μA	33	80		V
NEP	Noise Equivalent Power	V _R = 10V @ λ = Peak		1.0x10 ⁻¹⁴		W/√Hz
t _r	Response Time	RL = 1KΩ, V _R = 10 V		100		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.