

FEATURES

- Surface mount
- Photoconductive
- Low cost
- High speed

DESCRIPTION

The **PDB-C150SM** is a blue enhanced PIN silicon photodiode in a photoconductive mode packaged in a water clear SOT-23 surface mount package.

APPLICATIONS

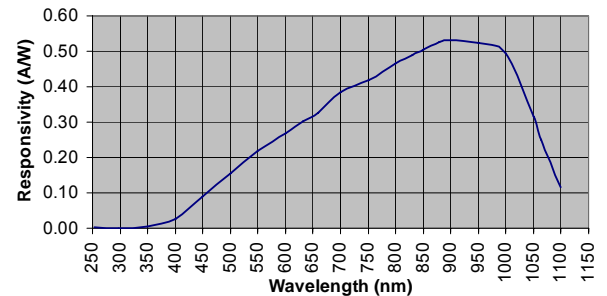
- Floppy disk drives
- Industrial control
- Opto switches
- Opto counters

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		50	V
T _{STG}	Storage Temperature	-40	+125	°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	1	2		μA
I _D	Dark Current	V _R = 10 V		2	30	nA
R _{SH}	Shunt Resistance	V _R = 10 mV		100		MΩ
C _J	Junction Capacitance	V _R = 10 V, f = 1 MHz		1	5	pF
λ range	Spectral Application Range	Spot Scan	400		1100	nm
V _{BR}	Breakdown Voltage	I = 10 μA	30	100		V
NEP	Noise Equivalent Power	V _R = 10V @ λ = Peak		2.5x10 ⁻¹⁵		W/√Hz
t _r	Response Time	RL = 50 Ω, V _R = 50 V		6.0		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.