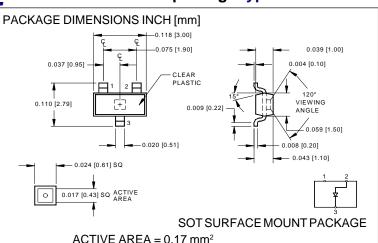
PHOTONIC Silicon Photodiode, Blue Enhanced Photoconductive DETECTORS INC. surface mount packageType PDB-C150SM





FEATURES

- Surface mount
- Low cost
- Tape and reeled
- High speed

DESCRIPTION

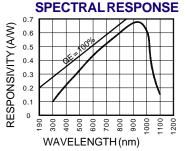
The **PDB-C150SM** is a silicon, PIN planar diffused, blue enhanced photodiode. Ideal for high speed photoconductive applications. Packaged in water clear SOT, surface mount package.

APPLICATIONS

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

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

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SYMBOL	PARAMETER	MIN	MAX	UNITS
Vbr	Reverse Voltage		50	V
T _{stg}	Storage Temperature	-40	+125	°C
To	Operating Temperature Range	-40	+80	°C
Ts	Soldering Temperature*		+240	°C
Ι	Light Current		500	mA



*1/16 inch from case for 3 secs max

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 1000 Lux, 2850 K	1.0	2		μΑ
ΙD	Dark Current	H = 0, V _R = 10 V		2	30	nA
Rsн	Shunt Resistance	H = 0, V _R = 10 mV		100		MΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
CJ	Junction Capacitance	$H = 0, V_R = 0 V^{**}$		1	5	pF
λrange	Spectral Application Range	Spot Scan	400		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
Vbr	Breakdown Voltage	I = 10 μA	30	100		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		2.5x10 ⁻¹⁵		W/ √ Hz
tr	Response Time	$RL = 1 K\Omega V_R = 10 V$		6.0		nS

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. **f=1 MHz [FORM NO. 100-PDB-C150SM REV B]