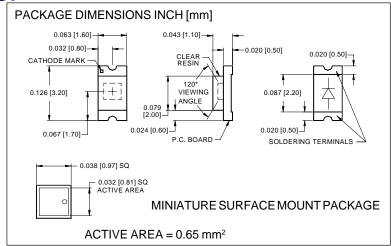
PHOTONIC Silicon Photodiode, Blue Enhanced Photoconductive DETECTORS INC. surface mount packageType PDB-C152SM





FEATURES

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

DESCRIPTION

The PDB-C152SM is a silicon, PIN planar diffused, blue enhanced photodiode. Ideal for high speed photoconductive applications. Packaged in water clear miniature surface mount package.

APPLICATIONS

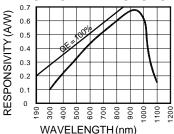
- · Floppy disk drives
- Industrial controls
- Opto switches
- · Opto counters

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		50	V
T _{STG}	Storage Temperature	-40	+90	∘C
To	Operating Temperature Range	-40	+85	∘C
Ts	Soldering Temperature*		+240	∘C
I _L	Light Current		500	mA

^{*1/16} inch from case for 3 secs max

SPECTRAL RESPONSE



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

				/		
SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	8	10		μ A
ΙD	Dark Current	H = 0, V _R = 10 V		2	10	nA
Rsн	Shunt Resistance	H = 0, V _R = 10 mV	.5	5		GΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
Сл	Junction Capacitance	H = 0, V _R = 10 V**		15	20	pF
λrange	Spectral Application Range	Spot Scan	400		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
VBR	Breakdown Voltage	I = 10 μA	50	100		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		1.5x10 ⁻¹³		W/ √Hz
tr	Response Time	RL = 1 KΩ V _R = 10 V		50		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-C152SM REV A]