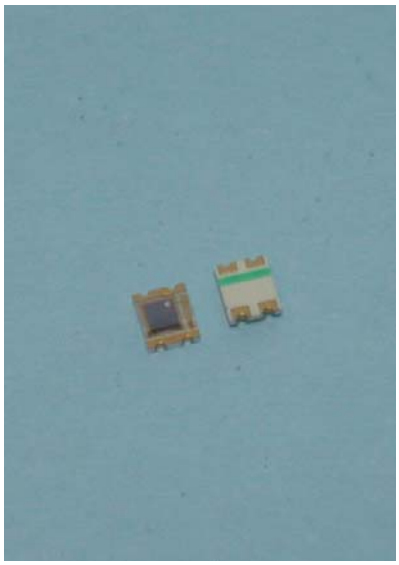
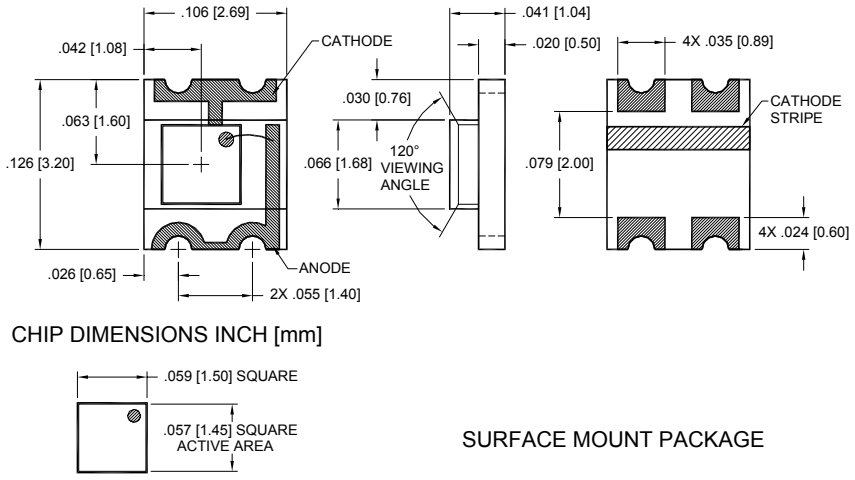
Photodiode in Plastic Surface Mount Package

PDB-C154SM





FEATURES

- Surface mount
- Photoconductive
- Low cost
- High speed

DESCRIPTION

The **PDB-C154SM** is a blue enhanced PIN silicon photodiode in a photoconductive mode packaged in a water clear surface mount package.

APPLICATIONS

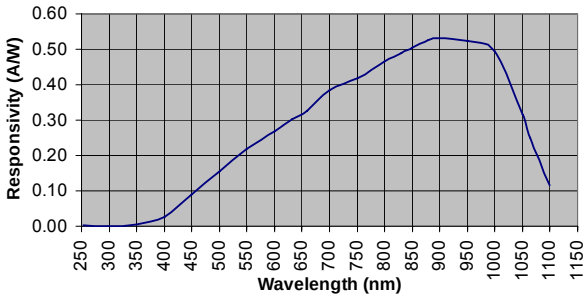
- Floppy disk drives
- Industrial control
- Opto switches
- Opto counters

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V_{BR}	Reverse Voltage		32	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	20	25		μA
I_D	Dark Current	V_R = 10 V		2	10	nA
R_{SH}	Shunt Resistance	V_R = 10 mV	500			MΩ
C_J	Junction Capacitance	V_R = 10 V, f = 1 MHz		6	5	pF
λrange	Spectral Application Range	Spot Scan	400		1100	nm
V_{BR}	Breakdown Voltage	I = 10 μA	32	170		V
NEP	Noise Equivalent Power	V_R = 10V @ λ=Peak		$1.5x10^{-13}$		W/$\sqrt{}$ Hz
t_r	Response Time	RL = 1 KΩ, V_R = 10 V		10		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.

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