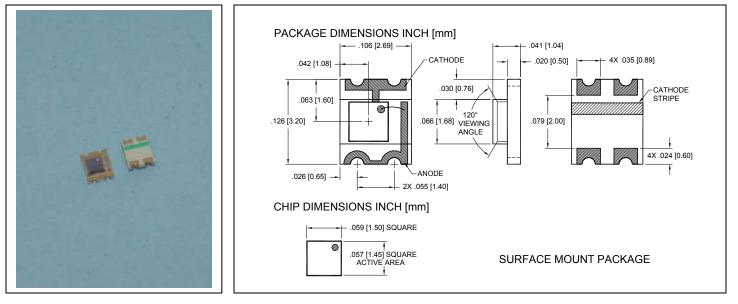


Photodiode in Plastic Surface Mount Package

PDB-C154SM



FEATURES

- Surface mount
- Photoconductive
- Low cost ٠
- 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

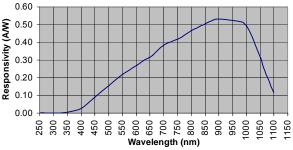
- · Floppy disk drives
- Industrial control
- Opto switches ٠
- · Opto counters

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
To	Operating Temperature	-40	+80	°C
Ts	Soldering Temperature*		+260	°C

* 1/16 inch from case for 3 seconds max.





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		μΑ
I _D	Dark Current	V _R = 10 V		2	10	nA
R _{SH}	Shunt Resistance	V _R = 10 mV	500			MΩ
CJ	Junction Capacitance	$V_{R} = 10 V, f = 1 MHz$		6	5	pF
λ range	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/ $\sqrt{_{\rm Hz}}$
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.

Advanced Photonix Inc. 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935 • www.advancedphotonix.com