



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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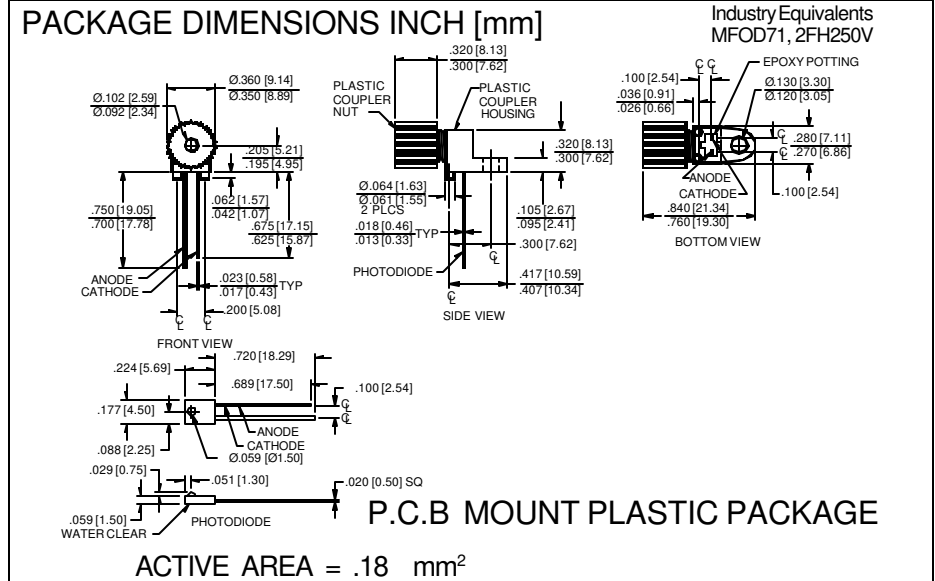
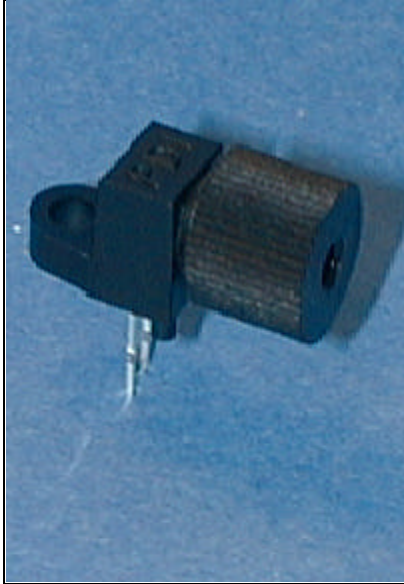
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PHOTONIC DETECTORS INC.

Silicon Photodiode, Photoconductive Fiber Optic Detector Type PDB-C505



FEATURES

- High speed, 50 Mhz
- Low cost, PCB mount
- Includes connector
- Light tight package

DESCRIPTION

The **PDB-C505** is a high speed, PIN photodiode packaged in a low cost P.C.B mount plastic housing. Designed to interface with 1000 micron core plastic fiber for short haul fiber optic systems. Ideally matched with **PDI-E521 IR** or **PDR-E526** red emitter.

APPLICATIONS

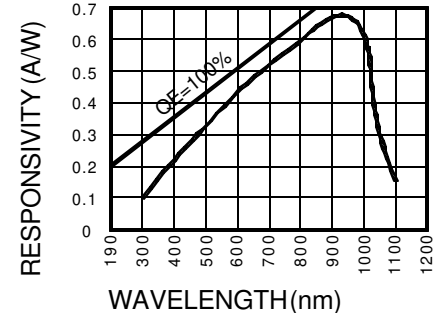
- High isolation interconnects
- Medical electronics
- Consumer electronics
- Micro processor

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
P _D	Total Power Dissipation		200	mW
T _O	Operating Temperature Range	-40	+80	°C
T _S	Soldering Temperature*		+260	°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	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{SC}	Short Circuit Current	H = 1000 lux, 2850 K		10		μA
I _D	Dark Current	H = 0, V _R = 10 V		.20	20	nA
R _{SH}	Shunt Resistance	H = 0, V _R = 10 mV	500	1000		MΩ
TC R _{SH}	RSH Temp. Coefficient	H = 0, V _R = 10 mV		-10		% / °C
C _J	Junction Capacitance	H = 0, V _R = 10 V**		5		pF
λ _{range}	Spectral Application Range	Flooded D.C.	400		1100	nm
λ _p	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	Breakdown Voltage	I = 10 μA	50	100		V
NEP	Noise Equivalent Power	V _R = 10 V @ 850 nm		6x10 ⁻¹⁵		W/√Hz
t _r	Response Time	RL = 1 KΩ V _R = 10 V		6		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-C505 REV A]