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Advanced Photonix, Inc. PDB-C505

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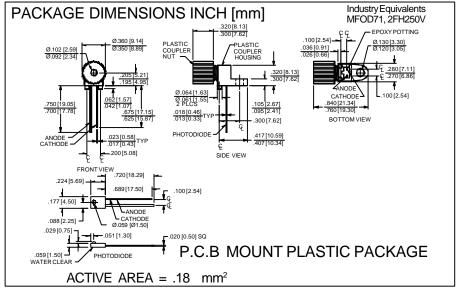
Distributor of Advanced Photonix, Inc.: Excellent Integrated System Limited Datasheet of PDB-C505 - PHOTODIODE FIBER OPTIC PCB MT

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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.

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

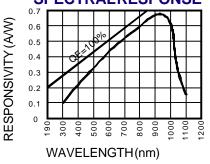
PARAMETER	MIN	MAX	UNITS	
Reverse Voltage		100	V	
Total Power Dissipation		200	mW	
Operating Temperature Range	-40	+80	S	
Soldering Temperature*		+260	∞	
Light Current		500	mA	
	Reverse Voltage Total Power Dissipation Operating Temperature Range Soldering Temperature*	Reverse Voltage Total Power Dissipation Operating Temperature Range -40 Soldering Temperature*	Reverse Voltage 100 Total Power Dissipation 200 Operating Temperature Range -40 +80 Soldering Temperature* +260	

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

APPLICATIONS

- High isolation interconnects
- · Medical electronics
- Consumer electronics
- Microprocessor

SPECTRALRESPONSE



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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 1000 lux, 2850 K		10		μ A
ΙD	Dark Current	$H = 0, V_R = 10 V$.20	20	nA
RsH	Shunt Resistance	$H = 0, V_R = 10 \text{ mV}$	500	1000		МΩ
TC RsH	RSH Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-10		%/℃
C₁	Junction Capacitance	$H = 0, V_R = 10 V^{**}$		5		рF
λrange	Spectral Application Range	Flooded D.C.	400		1100	nm
λр	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	Breakdown Voltage	Ι = 10 μΑ	50	100		V
NEP	Noise Equivalent Power	V _R = 10 V @ 850 nm		6x10 ⁻¹⁵		W/√ _{Hz}
tr	Response Time	$RL = 1 K\Omega V_R = 10 V$		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