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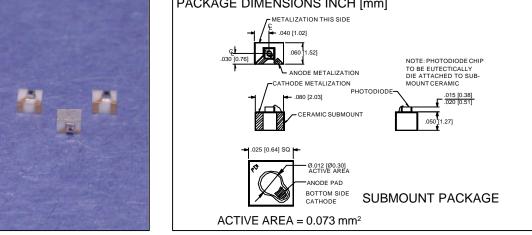
Advanced Photonix, Inc. PDB-C116

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Advanced Photonix, Inc. : Excellent Integrated System Limited Datasheet of PDB-C116 - PHOTODIODE BLUE .073MM SQ SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

PHOTONIC High Speed Silicon Photodiode, Photoconductive DETECTORS INC. chip on submount Type PDB-C116 PACKAGE DIMENSIONS INCH [mm]



DESCRIPTION

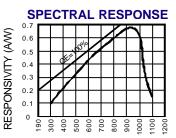
The **PDB-C116** is a high speed silicon, PIN planar diffused photodiode, packaged as a submount. It is used as an optical feedback detector in laser diode modules and other fiber optic data link modules.

APPLICATIONS

- Laser diodes
- Modules
- · Fiber optic modules

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

PARAMETER	MIN	MAX	UNITS				
Reverse Voltage		150	V				
Storage Temperature	-65	+150	°C				
Operating Temperature Range	-55	+125	°C				
Soldering Temperature*		+240	°C				
Light Current		0.5	mA				
	PARAMETER Reverse Voltage Storage Temperature Operating Temperature Range Soldering Temperature*	PARAMETERMINReverse Voltage-65Storage Temperature-65Operating Temperature Range-55Soldering Temperature*-55	PARAMETERMINMAXReverse Voltage150Storage Temperature-65+150Operating Temperature Range-55+125Soldering Temperature*+240				



WAVELENGTH (nm)

*1/16 inch from case for 3 secs max

FEATURES

Low cost

High speed

High reliability

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{sc}	Short Circuit Current	H = 100 fc, 2850 K	7.0	8.0		μA
I _D	Dark Current	$H = 0, V_{R} = 10 V$.5	2.0	nA
R _{sh}	Shunt Resistance	$H = 0, V_{R} = 10 \text{ mV}$	400	500		MΩ
TC R _{SH}	RSH Temp. Coefficient	$H = 0, V_{R} = 10 \text{ mV}$		-8		% / °C
C	Junction Capacitance	H = 0, V _R = 10 V**		1.0		pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	Breakdown Voltage	I = 10 µµA	100	150		V
N EP	Noise Equivalent Power	V _R = 10 V @ Peak		9.0x10 ⁻¹⁵		W/ √ Hz
tr	Response Time	$RL = 1 K\Omega V_R = 10 V$		1.0		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-C116 REV A]