

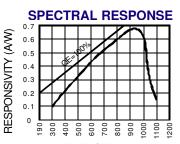
- High speed
- Low cost
- High reliability

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.

- Laser diodes
- Modules
- Fiber optic modules

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

SYMBOL	PARAMETER	MIN	MAX	UNITS			
V _{BR}	Reverse Voltage		150	V			
T _{stg}	Storage Temperature	-65	+150	°C			
T _o	Operating Temperature Range	-55	+125	°C			
Τ _s	Soldering Temperature*		+240	°C			
I _L	Light Current		0.5	mA			



WAVELENGTH (nm)

*1/16 inch from case for 3 secs max

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
l 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 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/ \sqrt{Hz}
tr	Response Time	$RL = 1 \text{ K}\Omega \text{ V}_{R} = 10 \text{ V}$		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]