

- High speed
- Low capacitance
- Blue enhanced
- Low dark current
- Low dark current

The **PDB-C102-I** is a silicon, PIN planar diffused, blue enhanced photodiode. Ideal for high speed photoconductive applications. Packaged in a hermetic TO-18 metal can with a flat window and isolated ground lead.

- Instrumentation
- Character recognition

SPECTRAL RESPONSE

- Laser detection
- Fiber optic

0.7

0.6 0.5

RESPONSIVITY (AW)

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T _{stg}	Storage Temperature	-55	+150	°C
Τ _ο	Operating Temperature Range	-40	+125	°C
Τ _s	Soldering Temperature*		+240	°C
Ι	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
SC	Short Circuit Current	H = 100 fc, 2850 K	8.5	9		mA
Ι _D	Dark Current	$H = 0, V_{_{\rm R}} = 10 \text{ V}$		45	150	рА
R _{sh}	Shunt Resistance	$H = 0, V_{_{R}} = 10 \text{ mV}$	0.5	2		GΩ
TC $R_{_{SH}}$	RSH Temp. Coefficient	$H = 0, V_{_{R}} = 10 \text{ mV}$		-8		% / °C
C	Junction Capacitance	H = 0, V _R = 10 V**		4		pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	Breakdown Voltage	l = 10 m A	100	125		V
N EP	Noise Equivalent Power	V _R = 10 V @ Peak		10x10 ⁻¹⁴		W/ V Hz
tr	Response Time	$RL = 1 K\Omega V_{R} = 50 V$		3.0		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