

FEATURES

- Large active area
- Photoconductive
- Low cost
- Lead frame

DESCRIPTION

The **PDB-C169** is a PIN silicon photodiode in a photoconductive mode packaged in a water clear plastic sidelooker package.

APPLICATIONS

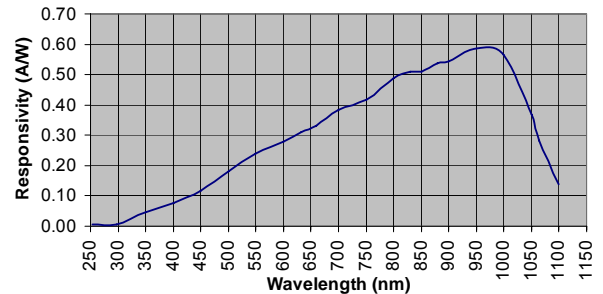
- Oximeters
- Dimmers
- TV & VCR remotes
- Bar code detectors

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V_{BR}	Reverse Voltage		200	V
T_{STG}	Storage Temperature	-40	+100	°C
T_O	Operating Temperature	-40	+80	°C
T_S	Soldering Temperature*		+260	°C

* 1/16 inch from case for 3 seconds max.

SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{SC}	Short Circuit Current	H = 100 fc, 2850 K	90	102		μA
I_D	Dark Current	$V_R = 10 V$		5	30	nA
R_{SH}	Shunt Resistance	$V_R = 10 mV$	125	140		$M\Omega$
C_J	Junction Capacitance	$V_R = 10 V, f = 1 MHz$		25		pF
λ_{range}	Spectral Application Range	Spot Scan	350		1100	nm
V_{BR}	Breakdown Voltage	$I = 10 \mu A$	33	170		V
NEP	Noise Equivalent Power	$V_R = 10V @ \lambda = Peak$		9.0×10^{-14}		W/\sqrt{Hz}
t_r	Response Time	$RL = 1K\Omega, V_R = 10 V$		50		nS

**Response time of 10% to 90% is specified at 660nm wavelength light.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.