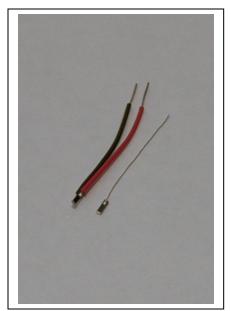
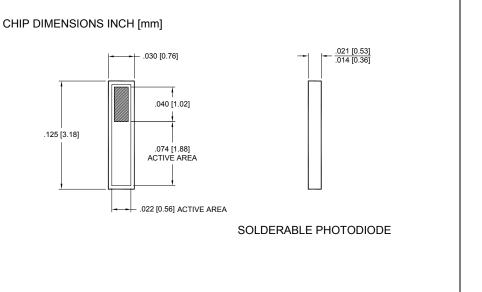


PDB-C601-1 Solderable Silicon Photodiodes







0.80

0.50

0.40

0.30

0.20

0.10

0.00

250 300 350 400 450

(N 0.70 0.60

Responsivity

FEATURES

Red enhanced

Photocondutctive

DESCRIPTION

- The PDB-C601-1 is a silicon red enhanced
- solderable photodiode designed for low capacitance • High quantum efficiency and high speed for photoconductive applications.
- · Optical encoder · Position sensor

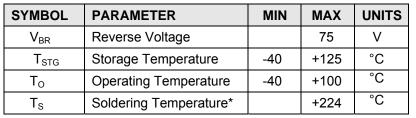
APPLICATIONS

- Industrial controls
- Instrumentation

SPECTRAL RESPONSE

500 550 600 650 770 770 750 8800 8800 8800 900 900 911000 1150

Wavelength (nm)



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

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	15	17		μΑ
I _D	Dark Current	V _R = 5 V		0.5	2	nA
R _{SH}	Shunt Resistance	V _R = 10 mV	60	150		MΩ
CJ	Junction Capacitance	$V_{R} = 5 V, f = 1 MHz$		10		pF
λ range	Spectral Application Range	Spot Scan	350		1100	nm
V _{BR}	Breakdown Voltage	I = 10 μA	25	50		V
NEP	Noise Equivalent Power	V _R = 0V @ λ = Peak		1x10 ⁻¹⁴		W/ $\sqrt{_{\rm Hz}}$
t _r	Response Time	$RL = 1K\Omega, V_R = 5V$		10		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.

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