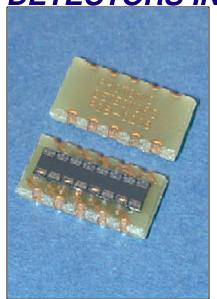
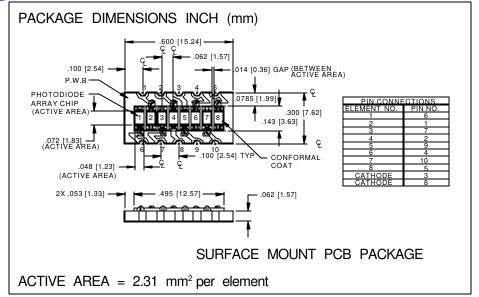
PHOTONIC DETECTORS INC.

Silicon Photodiode Array, Photoconductive 8 element Type PDB-C208





FEATURES

- .062 inch centers
- Low cost
- Blue enhanced
- Low dark current

DESCRIPTION

The **PDB-C208** is a silicon, PIN planar diffused, blue enhanced linear array photodiode. Ideal for high speed photoconductive applications. Packaged in low profile surface mount PCB substrate.

APPLICATIONS

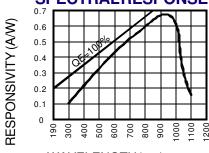
- Cardreader
- Scanners
- Instrumentation
- Characterrecognition

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

SYMBOL	PARAMETER	MIN	MAX	UNITS	
V _{BR}	Reverse Voltage		50	V	
T _{STG}	Storage Temperature	-40	+100	∞	
To	Operating Temperature Range	-20	+75	∞	
Ts	Soldering Temperature*		+265	∞	
IL	Light Current		0.5	mA	

^{*}edge of PCB for 3 secs max

SPECTRALRESPONSE



WAVELENGTH(nm)

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

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	18	28		μΑ
ΙD	Dark Current	$H = 0, V_R = 5 V$		5	50	nA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	100	200		MΩ
TC Rsh	Rsн Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-8		%/°C
CJ	Junction Capacitance	$H = 0, V_R = 0 V^{**}$		40	60	pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λр	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	Breakdown Voltage	I = 10 μμΑ	15	30		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		3x10 ⁻¹⁴		W/√ _{Hz}
tr	Response Time	RL = 50 Ω V _R = 10 V		15		nS