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Advanced Photonix, Inc. PDB-C208

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Advanced Photonix, Inc. : Excellent Integrated System Limited Datasheet of PDB-C208 - PHOTODIODE QUAD 2.31MM SQ PCB Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

PHOTONIC <u>DETECTORS I</u>NC<u>.</u>

Silicon Photodiode Array, Photoconductive 8 element Type PDB-C208



ACTIVE AREA = 2.31 mm² per element

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	
Vbr	Reverse Voltage		50	V	
T _{STG}	Storage Temperature	-40	+100	°C	
To	Operating Temperature Range	-20	+75	°C	
Ts	Soldering Temperature*		+265	<u>о</u> С	
Ι	Light Current		0.5	mA	



WAVELENGTH(nm)

*edge of PCB for 3 secs max

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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 100 fc, 2850 K	18	28		μA
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	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		% / °C
CJ	Junction Capacitance	$H = 0, V_R = 0 V^{**}$		40	60	pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
Vbr	Breakdown Voltage	I = 10 μA	15	30		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		3x10 ⁻¹⁴		W/ V Hz
tr	Response Time	$RL = 50 \Omega V_R = 10 V$		15		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=1MHz [FORMNO.100-PDB-C208 REVE]