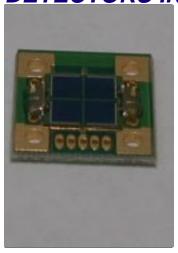
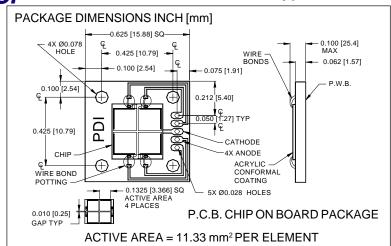
PHOTONIC DETECTORS INC.

Silicon Photodiode, Blue Enhanced Photoconductive Quadrant Type PDB-C206





FEATURES

- Narrowgap
- P.C.B. mount
- Blue enhanced
- Large active area

DESCRIPTION

The **PDB-C206** is a silicon, pin planar diffused, blue enhanced large area quadrant photodiode. Each element is 11.33 mm² with a .010 inch (0.25 mm) gap. Packaged on a .062 inch thick P.C.B. chip on board.

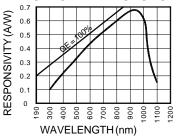
APPLICATIONS

- Optical alignment
- Position sensing
- Edge sensing
- Instrumentation

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T _{STG}	Storage Temperature	-50	+125	∘C
To	Operating Temperature Range	-40	+100	∘C
Ts	Soldering Temperature*		+240	∘C
IL	Light Current		0.5	mA

SPECTRAL RESPONSE



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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	100	185		μ A
ΙD	Dark Current	H = 0, V _R = 10 V		10	50	nA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	50	100		МΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
Сı	Junction Capacitance	H = 0, V _R = 10 V		50		pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λр	Spectral Response - Peak	Spot Scan		950		nm
VBR	Breakdown Voltage	I = 10 μA	50	75		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		1.0x10 ⁻¹⁴		W/ √ Hz
tr	Response Time	RL = 1 KΩ V _R = 10 V		25		nS