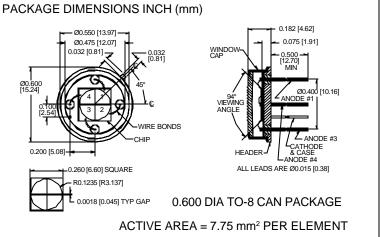
PHOTONIC Silic DETECTORS INC.



Silicon Photodiode, Blue Enhanced Photoconductive Quadrant Type PDB-C204



FEATURES

- High speed
- Low capacitance
- Blue enhanced
- Low dark current

DESCRIPTION

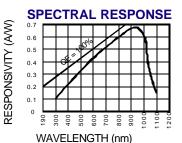
The **PDB-C204** is a silicon, pin planar diffused, blue enhanced quadrant cell photodiode. Ideal for high speed photoconductive applications. Packaged in a 0.600 dia TO-8 metal can with a flat window cap.

APPLICATIONS

- Optical Alignment
- Position sensing
- Edge sensing
- Instrumentation

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)								
SYMBOL	PARAMETER	MIN	MAX	UNITS				
Vbr	Reverse Voltage		100	V				
T _{stg}	Storage Temperature	-55	+150	°C				
То	Operating Temperature Range	-40	+125	°C				
Ts	Soldering Temperature*		+240	°C				
Ι	Light Current		0.5	mA				

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



*1/16 inch from case for 3 secs max

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 100 fc, 2850 K	100	125		mA
ΙD	Dark Current	H = 0, V _R = 10 V		2.5	5	nA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	150	200		MΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
CJ	Junction Capacitance	H = 0, V _R = 10 V		40		pF
λrange	Spectral Application Range	Spot Scan	320		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
Vbr	Breakdown Voltage	I = 10 m A	50	100		V
N EP	Noise Equivalent Power	V _R = 10 V @ Peak		.75x10 ⁻¹⁴		W/ V Hz
tr	Response Time	$RL = 1 K\Omega V_R = 10 V$		5	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.