

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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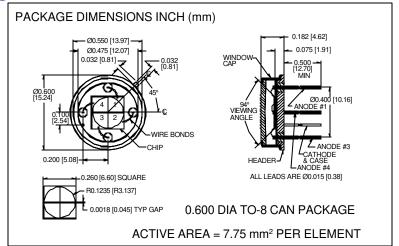






PHOTONIC Silicon Photodiode, Blue Enhanced Photoconductive **Quadrant Type PDB-C204** DETECTORS INC.





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

APPLICATIONS

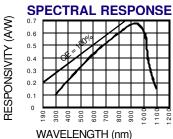
- Optical Alignment
- Position sensing
- Edge sensing
- Instrumentation

window cap.

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T _{stg}	Storage Temperature	-55	+150	°C
То	Operating Temperature Range	-40	+125	°C
Ts	Soldering Temperature*		+240	°C
I	Light Current		0.5	mA

^{*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	Rsн Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-8		%/℃
C	Junction Capacitance	H = 0, V _R = 10 V		40		pF
λrange	Spectral Application Range	Spot Scan	320		1100	nm
λр	Spectral Response - Peak	Spot Scan		950		nm
V _{BR}	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 KΩ 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.