mail

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.

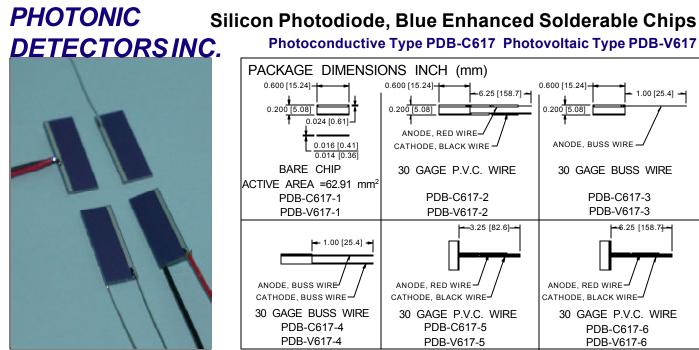
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





FEATURES

- · Blue enhanced
- Photovoltaic type
- Photoconductive type
- High quantum efficiency operation. The
- **DESCRIPTION:** Low cost blue enhanced planar diffused silicon solderable photodiode. The **PDB-V617** cell is designed for low noise, photovoltaic applications. The **PDB-C617** cell is designed for low capacitance, high speed, photoconductive operation. They are available bare, PVC or buss wire leads.
- Industrial controls

٠

Instrumentation

APPLICATIONS

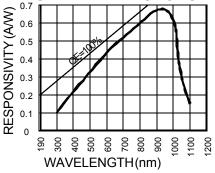
Position sensor

· Optical encoder

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

SYMBOL	PARAMETER .	PDB-C617		PDB-	V617	UNITS	
		MIN	MAX	MIN	MAX	Chino	
Vbr	Reverse Voltage		75		25	V	
T _{stg}	Storage Temperature	-40	+125	-40	+125	Ś	
То	Operating Temperature Range	-40	+100	-40	+100	Ŝ	
Ts	Soldering Temperature		+224		+224	°C	
Ι	Light Current		500		500	mA	





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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	PDB-C617			PDB-V617			
			MIN	TYP	MAX	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 100 fc, 2850 K	625	650		615	640		μ A
ΙD	Dark Current	H = 0, V _R = 5 V*		65	135		35	75	nA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	4.5	9		6.5	13.5		MΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8			-8		% / °C
CJ	Junction Capacitance	H = 0, V _R = 5 V**		285			8500		pF
λrange	Spectral Application Range	Spot Scan	350		1100	350		1100	nm
λp	Spectral Response - Peak	Spot Scan		940			940		nm
Vbr	Breakdown Voltage	I = 10 μA	25	50		5	15		V
NEP	Noise Equivalent Power	V _R = 0 V @ Peak	7.0 x 10 ⁻¹³ TYP		2.16 x 10 ⁻¹³ TYP			W/ \sqrt{Hz}	
tr	Response Time	RL = 1 K Ω V _R = 5 V ^{**}		40			2500		nS

*VR=100mVonPhotovoltaictype **VR=0VonPhotovoltaictype

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. [FORM NO. 100-PDB-C617-V617 REV B]