imall

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.

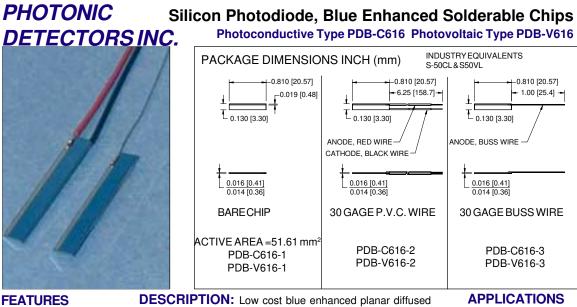
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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- Blue enhanced
- Photovoltaic type
- Photoconductive type
- High quantum efficiency

silicon solderable photodiode. The **PDB-V616** cell is designed for low noise, photovoltaic applications. The **PDB-C616** cell is designed for low capacitance, high speed, photoconductive operation. They are available bare, PVC or buss wire leads.

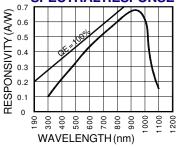
Optical encoderPosition sensor

- Industrial controls
- Instrumentation

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

SYMBOL	PARAMETER	PDB-	C616	PDB-	V616	UNITS	
			MAX	MIN	MAX	onino	
VBR	Reverse Voltage		75		25	V	
T _{STG}	Storage Temperature	-40	+125	-40	+125	°C	
To	Operating Temperature Range	-40	+100	-40	+100	°C	
Ts	Soldering Temperature		+224		+224	°C	
I	Light Current		500		500	mA	

SPECTRAL RESPONSE



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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	PDB-C616			PDB-V616			
			MIN	TYP	MAX	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 100 fc, 2850 K	700	725		560	650		m A
١D	Dark Current	H = 0, V _R = 5 V*		100	200		35	75	nA
Rsн	Shunt Resistance	H = 0, V _R = 10 mV	1	2		5	10		MΩ
TC RSH	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8			-8		% / °C
CJ	Junction Capacitance	H = 0, V _R = 5 V**		300			6000		pF
λrange	Spectral Application Range	Spot Scan	350		1100	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		940			940		nm
VBR	Breakdown Voltage	I = 10 m A	25	50		5	15		V
NEP	Noise Equivalent Power	V _R = 0 V @ Peak	7.0 x 10 ⁻¹² TYP		2.0 x 10 ⁻¹³ TYP			W/ \sqrt{Hz}	
tr	Response Time	$RL = 1 \text{ K}\Omega \text{ V}_{\text{R}} = 5 \text{ V}^{**}$		36			1800		nS

*VR = 100 mV on Photovoltaic type *VR = 0 V on Photovoltaic type

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-C616-V616 REV N/C]