

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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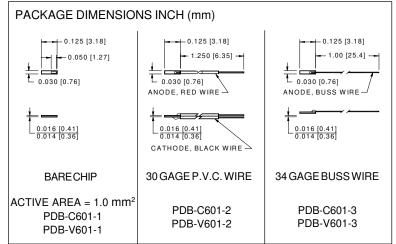




PHOTONIC Silicon Photodiode, Blue Enhanced Solderable Chips

Photoconductive Type PDB-C601 Photovoltaic Type PDB-V601





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

DESCRIPTION: Low cost blue enhanced planar diffused

silicon solderable photodiode. The **PDB-V601** cell is designed for low noise, photovoltaic applications. The **PDB-C601** cell is designed for low capacitance, high speed, photoconductive

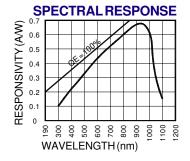
operation. They are available bare, PVC or buss wire leads.

APPLICATIONS

- Optical encoder
- Position sensor
- Industrial controls
- Instrumentation

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

SYMBOL	PARAMETER .	PDB-C601		PDB-	V601	UNITS	
		MIN	MAX	MIN	MAX	Ortifo	
VBR	Reverse Voltage		75		25	V	
T _{stg}	Storage Temperature	-40	+125	-40	+125	°C	
То	Operating Temperature Range	-40	+100	-40	+100	°C	
Ts	Soldering Temperature		+224		+224	°C	
I _L	Light Current		500		500	mA	



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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	PDB-C601			PDB-V601			LINITO
			MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	15	17		10	13		μ A
ΙD	Dark Current	H = 0, V _R = 5 V*		.5	2		3	7	nA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	60	150		100	250		$M\Omega$
TC RsH	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8			-8		%/°C
C₁	Junction Capacitance	H = 0, V _R = 5 V**		10			250		рF
λrange	Spectral Application Range	Spot Scan	350		1100	350		1100	nm
λр	Spectral Response - Peak	Spot Scan		940			940		nm
V _{BR}	Breakdown Voltage	I = 10 μA	25	50		5	15		V
NEP	Noise Equivalent Power	V _R = 0 V @ Peak	1 x 10 ⁻¹⁴ TYP		2 x 10 ⁻¹⁴ TYP			W/ √Hz	
tr	Response Time	RL = 1 KΩ V _R = 5 V**		10			300		nS

^{*}VR = 100 mV on Photovoltaic type **VR = 0 V on Photovoltaic type