

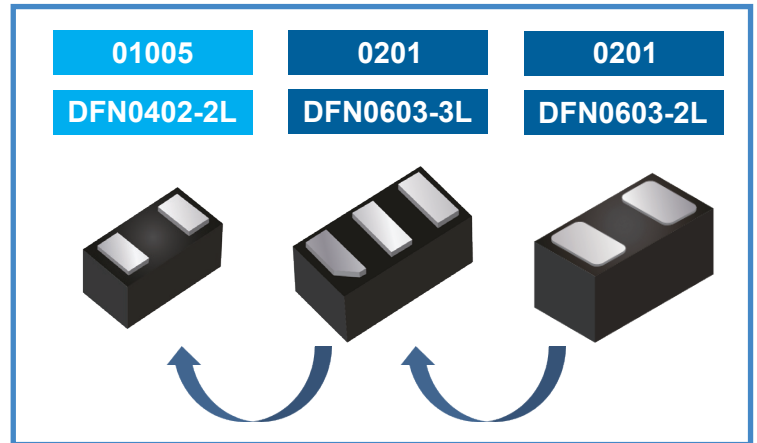
High Efficiency ESD Protection Diodes

Smart Protection Devices for High-Speed Data Lines

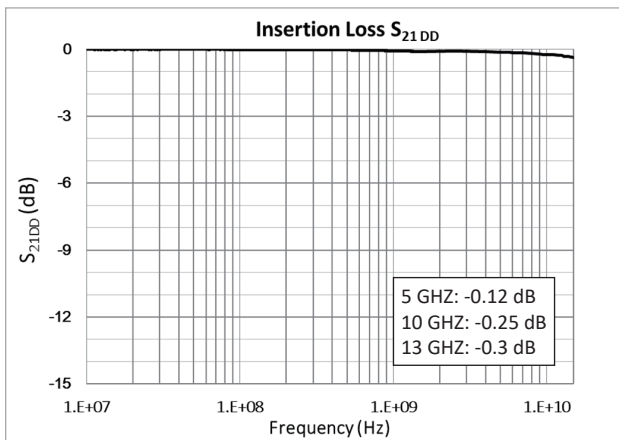


► Features

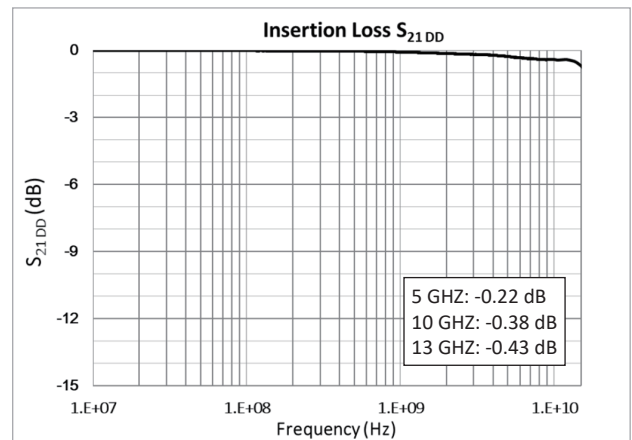
- Low junction capacitance of 0.1 pF
- Ultra-small and compact packages
- Single line and multilayer arrays
- High-speed application protection
- Flexible PCB layout & design
- Low clamping voltage
- IEC 61000-4-2 level 4 (ESD)



► Performance



P/N	Capacitance (Typ.)	Insertion Loss S_{21DD}		
		f = 5G Hz	f = 10G Hz	f = 13G Hz
PS1101-D32	0.09 pF	-0.12 dB	-0.25 dB	-0.3 dB



P/N	Capacitance (Typ.)	Insertion Loss S_{21DD}		
		f = 5G Hz	f = 10G Hz	f = 13G Hz
PS1201-D32	0.19 pF	-0.22 dB	-0.38 dB	-0.43 dB



➤ Applications







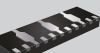
Interfaces

- USB Type-C (4/3.2 Gen 2)
- Thunderbolt (up 40 Gbps)
- DP (2.1/2.0)
- HDMI (2.1/2.0)

Instruments

- Antenna protection
- Portable electronics

➤ Products

Channel	IEC61000-4-2 ESD Contact	IEC61000-4-5 Surge	Junction Cap.	V _{RMW}	TLP Clamping Voltage @16A	DFN0603-2L 	DFN1006-2L 	DFN1006-3L 	DFN2510A-10L 	SOT-23-6L-1 	DFN3020-10L 	DFN5515C-14L DFN5515C-18L 		
	kV	A	pF	V	V									
1	9	3	0.09	1	11.6	PS1101-D32								
	11	4.5	0.09	3.3	11.6	PS1103-D32								
	12	5	0.19	1.5	4.1	PS1202-D32								
				3.3	4.1	PS1203-D32								
				5	4.4	PS1205-D32								
				0.17	2.8	4.1	PS1223-D32							
				0.15	3.3	4.7	PS1263-D32*							
					5	4.7	PS1265-D32*							
	15	6.5	0.19	1	6.5	PS1201-D32								
	20	7	0.42	5	4.4	PS1405-D32								
	12	4	0.2	24	5	PS120M-D32*								
	21	10	0.5	24	3	PS140M-D32								
					3.8		PS150M-D62							
					3	PS160M-D32								
					0.6	24	3.3	PS162M-D32	PS161M-D62*					
							3.3	PS161M-D32*	PS161M-D62*					
					25	10	0.5	28	3	PS150P-D32				
	12	4	0.2	28	5	PS120P-D32*								
	30	12	0.75	3.3	2.6		PS1703-D62*							
					2.6		PS1705-D62*							
					5	3	PS1705-D32							
3.3						2.6	PS1703-D32							
20	7	0.42	3.3	4.5			PS2403-D63							
			5	4.5			PS2405-D63							
			0.8	3.3	3.1				PS2703-D63*					
					5	3.1			PS2705-D63					
12	5	0.09	3.3	8.6				PS4103-DFA						
			0.1	5	8.8				PS4105-DFA					
			0.2	3.3	4.1					PS4203-DFA				
				5	5					PS4205-DFA				
			14	4	0.45	5	11				PB4415-DFA			
						5	0.43	3.3	9				PB4413-DFA	
1.5	4.1										PS4312-DFA			
15	6	0.29	3.3	4.1										
			5	4.3										
			5	4.3										
25	10	0.65	3.3	3.5										
15	5.5	0.6	5	10.5						PB5615-S26				
30	10	1	5	5						PS5915-S26				
8	30	40	2	2.5	2.5						PS8A12-DHA*			
			2	3.3	2.5							PS8A13-DHA*		
	18	6	0.1	3.3	6.5							PS8103-DQJ*		
	15	6	0.28	3.3	TBD							PS8313-DQE*		

* Under Development