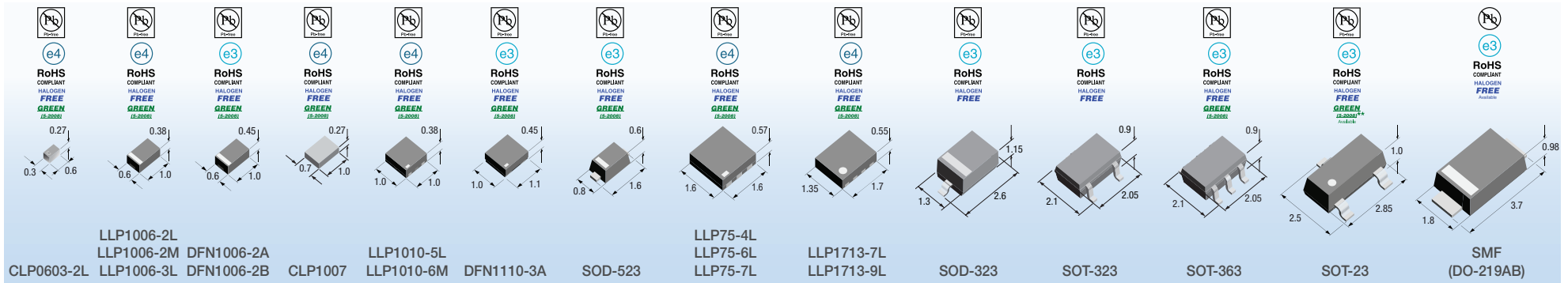




ESD PROTECTION DIODES

Vishay Semiconductors



e3 = Pins plated with tin (Sn)
e4 = Pins plated with precious metal
(e.g. Ag, Au, NiPd, NiPdAu) (no Sn)

= Totally lead (Pb)-free according to JESD97

= Termination are lead (Pb)-free according to JESD97
RoHS COMPLIANT = RoHS-compliant according to EU Directive 2011/65/EU

GREEN = Part is GREEN according to Vishay's definition
see: www.vishay.com/doc?99912
HALOGEN FREE = Halogen-free according to JEDEC® JS709A

Package															
Circuit Diagram															
Part Numbers	VCUT03E1-SD0 VCUT05E1-SD0 VCUT10A1-SD0 VCUT15A1-SD0 VBUS03B1-SD0 VBUS05B1-SD0		VESD03A1B-HD1 VESD03A1C-HD1 VESD05A1A-HD1 VESD05A1B-HD1 VESD05A1C-HD1 VESD12A1C-HD1 VESD12A1A-HD1 VESD15A1-HD1		VCUT0505B-HD1 VCUT0714A-HD1 VCUT07B1-HD1 VCUT03B1-DD1 VCUT05B1-DD1 VBUS05L1-DD1		Coming soon: VESD01C1-HD1 to VESD33C1-HD1 VMMB216C1HD1 VMMB233C1HD1	VCUT0714BHD1 Coming soon: VMMB216C1DD1 VMMB233C1DD1	VBUS05M2-HT5 VCAN24A2-HT5 Coming soon: VCAN33A2-HT5 VCAN36A2-HT5	VBUS05M2-HT1	VBUS54FD-SD1	VESD01C1-02V to VESD33C1-02V VESD05A1-02V VESD05B1-02V VBUS05M1-02V		VCUT0714A-02V	AEC-Q101 qualified
Package															
Circuit Diagram															
Part Numbers	VESD05A5-06G to VESD26A5-06G	GSOT03C to GSOT36C	GSOT03 to GSOT36 VESD33A2-03S	VCAN16A2-03S VCAN26A2-03S VCAN33A2-03S VCAN36A2-03S Coming soon: VCAN18A2-03S		VBUS052BD-HTF	VBUS54DD-HS4	VBUS054DD-HF4	VBUS052CD-FAH	VESD05A5A-HSF GMF05C-HSF GMF05LC-HSF	VBUS054B-HSF VBUS54CV-HSF	VESD09A4A-HSF	VESD05A6-HAF VESD05A6A-HAF	VBUS053AZ-HAF VBUS053CZ-HAF	VESD05A8A-HNH VESD05A8B-HNH VESD05A8C-HNH
Package															
Circuit Diagram															
Part Numbers	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified		AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified	AEC-Q101 qualified

ESD Protection Diodes (ESD = Electrostatic Discharge)		 Capacitance	Reverse Working Voltage 		 Peak Pulse Current 8/20 μs 10/1000 μs*	 Peak Pulse Power P 8/20 μs 10/1000 μs*	 Protectable Lines ● = GDT ≡ ▲ = BI	 ESD Immunity acc. IEC 61000-4-2	 Package
			Negative	Positive					
1	VBUS03B1-SD0 / VBUS05B1-SD0	1			1			1	
2	VCUT03E1-SD0 / VCUT05E1-SD0	2			2			2	
3	VCUT10A1-SD0 / VCUT15A1-SD0	3			3			3	
4	VBUS54FD-SD1	4			4			4	
5	VMMBZ16C1HD1 / VMMBZ33C1HD1 (coming soon)	5			5			5	
6	VESD01C1-HD1 to VESD033C1-HD1 (coming soon)	6			6			6	
7	VMMBZ16C1DD1 / VMMBZ33C1DD1 (coming soon)	7			7			7	
8	VCUT0505B-HD1	8			8			8	
9	VCUT07B1-HD1	9			9			9	
10	VESD03A1B-HD1 / VESD03A1C-HD1	10			10			10	
11	VESD05A1C-HD1	11			11			11	
12	VESD05B1-02V / VESD05A1B-HD1	12			12			12	
13	VESD12A1A-HD1 / VESD12A1C-HD1	13			13			13	
14	VESD15A1-HD1	14			14			14	
15	VBUS05L1-DD1	15			15			15	
16	VCUT03B1-DD1 / VCUT05B1-DD1	16			16			16	
17	VBUS54DD-HF4 / VBUS054DD-HS4	17			17			17	
18	VBUS05M2-HT1	18			18			18	
19	VBUS05M2-HT5	19			19			19	
20	VCAN24A2-HT5	20			20			20	
21	VCAN33A2-HT5 / VCAN36A2-HT5 (coming soon)	21			21			21	
22	VBUS052BD-HTF	22			22			22	
23	GMF05C-HSF / GMF05LC-HSF	23			23			23	
24	VBUS054B-HSF	24			24			24	
25	VBUS54CV-HSF	25			25			25	
26	VESD05A5A-HSF / VESD05A6A-HAF / VESD05A6-HAF	26			26			26	
27	VESD09A4A-HSF	27			27			27	
28	VBUS053AZ-HAF	28			28			28	
29	VBUS053CZ-HAF	29			29			29	
30	VBUS05M1-02V	30			30			30	
31	VESD01C1-02V to VESD033C1-02V	31			31			31	
32	VCUT0714A-02V / VCUT0714A-HD1 / VCUT0714BHD1	32			32			32	
33	VESD05A1-02V / VESD05B1-02V / VESD05A1A-HD1	33			33			33	
34	VBUS052CD-FAH	34			34			34	
35	VESD05A8A-HNH / VESD05A8B-HNH / VESD05A8C-HNH	35			35			35	
36	VESD01A2-03G to VESD033A2-03G	36			36			36	
37	VLIN26A1-03G	37			37			37	
38	VCAN16A2-03G / VCAN16A2-03S	38			38			38	
39	VCAN26A2-03G / VCAN26A2-03S	39			39			39	
40	VCAN26B2-03G / VCAN26C2-03G	40			40			40	
41	VCAN33A2-03G / VCAN33A2-03S	41			41			41	
42	VCAN36A2-03G / VCAN36A2-03S	42			42			42	
43	VESD05A5-06G to VESD26A5-06G	43			43			43	
44	VLIN1616-02G / VLIN2626-02G / VLIN3333-02G	44			44			44	
45	VLIN1626-02G	45			45			45	
46	GSOT03 to GSOT36 / GSOT03C to GSOT36C	46			46			46	
47	VESD033A2-03S	47			47			47	
48	SMF5V0A to SMF58A	48			48			48	
49	VTVS3V3ASMF to VTVS63GSMF	49			49			49	