



 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.27 0.3 0.6	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.38 0.6 1.0	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.45 0.6 1.0	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.27 0.7 1.0	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.38 1.0 1.0	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.45 1.0 1.1	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.6 0.8 1.6	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.57 1.6 1.6	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.55 1.35 1.7	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 1.15 1.3 2.6	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.9 2.1 2.05	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 1.0 2.5 2.85	 RoHS COMPLIANT HALOGEN FREE GREEN (JE-2009A) 0.98 1.8 3.7
CLP0603-2L	LLP1006-2L LLP1006-2M LLP1006-3L	DFN1006-2A DFN1006-2B	CLP1007	LLP1010-5L LLP1010-6M	DFN1110-3A	SOD-523	LLP75-4L LLP75-6L LLP75-7L	LLP1713-7L LLP1713-9L	SOD-323	SOT-323	SOT-23	SMF (DO-219AB)

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
RoHS COMPLIANT = RoHS-compliant according to EU Directive 2011/65/EU

GREEN (JE-2009) = Part is GREEN according to Vishay's definition
see: www.vishay.com/doc?99912
HALOGEN FREE = Halogen-free according to JEDEC® JS709A

Package	 CLP0603-2L	 LLP1006-2L / LLP1006-2M		 DFN1006-2A / DFN1006-2B		 DFN1110-3A	 LLP1006-3L	 CLP1007-5L	 SOD-523		 SOD-323		 SOT-323		
Circuit Diagram															
Part Numbers	AEC-Q101 qualified VCUT0361-SD0 VCUT0561-SD0 VCUT1061-SD0 VCUT1561-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	AEC-Q101 qualified VESD01C1-HD1 to VESD33C1-HD1 VMMBZ16C1HD1 VMMBZ33C1HD1 VBUS03N1-HD1 VBUS05N1-HD1	AEC-Q101 qualified VCUT0714BHD1 VMMBZ16C1DD1 VMMBZ33C1DD1 VBUS03N1-DD1 VBUS05N1-DD1 VETH100A1DD1	AEC-Q101 qualified VBUS05M2-HT5 VCAN24A2-HT5 VCAN33A2-HT5 VCAN36A2-HT5	VBUS05M2-HT1	VBUS54FD-SD1	AEC-Q101 qualified VESD01C1-02V to VESD33C1-02V VESD05A1-02V VESD05B1-02V VBUS05M1-02V	AEC-Q101 qualified VCUT0714A-02V	AEC-Q101 qualified VLIN2626-02G VLIN1626-02G VLIN1616-02G VLIN3333-02G	AEC-Q101 qualified VLIN26A1-03G	AEC-Q101 qualified VCAN16A2-03G VCAN26A2-03G VCAN26B2-03G VCAN26C2-03G VCAN33A2-03G VCAN33C2-03G VCAN36A2-03G VCAN36C2-03G Coming soon: VETH100A203G	AEC-Q101 qualified VESD01A2-03G to VESD33A2-03G	
Package	 SOT-23		 LLP75-4L	 LLP1010-6M	 LLP1010-5L	 LLP1713-7L	 LLP75-6L		 LLP75-7L	 LLP1713-9L		 SMF (DO-219AB)			
Circuit Diagram															
Part Numbers	AEC-Q101 qualified GSOT03C to GSOT36C	AEC-Q101 qualified GSOT03 to GSOT36 VESD33A2-03S	AEC-Q101 qualified VCAN16A2-03S VCAN26A2-03S VCAN33A2-03S VCAN36A2-03S VCAN18A2-03S VETH100A203S	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	AEC-Q101 qualified SMF5V0A to SMF 58A VTVS3V3ASMF to VTVS63GSMF	

Bold = new product

For technical questions, contact: ESDProtection@vishay.com

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ESD Protection Diodes (ESD = Electrostatic Discharge)		Capacitance	Reverse Working Voltage		Peak Pulse Current	Peak Pulse Power	Protectable Lines	ESD Immunity acc. IEC 61000-4-2	Package
			Negative	Positive	8/20 μ s 10/1000 μ s*	8/20 μ s 10/1000 μ s*	● = CL ▬ = BL ▲ = BI		
1	VBUS03B1-SD0 / VBUS05B1-SD0	1			1	1	1	1	1
2	VCUT03G1-SD0 / VCUT05G1-SD0	2			2	2	2	2	2
3	VCUT10G1-SD0 / VCUT15G1-SD0	3			3	3	3	3	3
4	VBUS54FD-SD1	4			4	4	4	4	4
5	VMMBZ16C1HD1 / VMMBZ33C1HD1	5			5	5	5	5	5
6	VESD01C1-HD1 to VESD33C1-HD1	6			6	6	6	6	6
7	VMMBZ16C1DD1 / VMMBZ33C1DD1	7			7	7	7	7	7
8	VCUT0505R-HD1	8			8	8	8	8	8
9	VCUT07B1-HD1	9			9	9	9	9	9
10	VESD03A1B-HD1 / VESD03A1C-HD1	10			10	10	10	10	10
11	VESD05A1C-HD1	11			11	11	11	11	11
12	VESD05B1-02V / VESD05A1B-HD1	12			12	12	12	12	12
13	VESD12A1A-HD1 / VESD12A1C-HD1	13			13	13	13	13	13
14	VESD15A1-HD1	14			14	14	14	14	14
15	VBUS05L1-DD1 / VBUS03N1-DD1 / VBUS05N1-DD1	15			15	15	15	15	15
16	VCUT03B1-DD1 / VCUT05B1-DD1	16			16	16	16	16	16
17	VBUS54DD-HF4 / VBUS054DD-HS4	17			17	17	17	17	17
18	VBUS05M2-HT1	18			18	18	18	18	18
19	VBUS05M2-HT5	19			19	19	19	19	19
20	VCAN24A2-HT5	20			20	20	20	20	20
21	VCAN33A2-HT5 / VCAN36A2-HT5	21			21	21	21	21	21
22	VBUS052BD-HTF	22			22	22	22	22	22
23	GMF05C-HSF / GMF05LC-HSF	23			23	23	23	23	23
24	VBUS054B-HSF	24			24	24	24	24	24
25	VBUS54CV-HSF	25			25	25	25	25	25
26	VESD05A5A-HSF / VESD05A6A-HAF / VESD05A6-HAF	26			26	26	26	26	26
27	VESD09A4A-HSF	27			27	27	27	27	27
28	VBUS053A2-HAF	28			28	28	28	28	28
29	VBUS053CZ-HAF	29			29	29	29	29	29
30	VBUS05M1-02V / VBUS03N1-HD1 / VBUS05N1-HD1	30			30	30	30	30	30
31	VESD01C1-02V to VESD33C1-02V	31			31	31	31	31	31
32	VCUT0714A-02V / VCUT0714A-HD1 / VCUT0714BHD1	32			32	32	32	32	32
33	VESD05A1-02V / VESD05B1-02V / VESD05A1A-HD1	33			33	33	33	33	33
34	VBUS052CD-FAH	34			34	34	34	34	34
35	VESD05A8A-HNH / VESD05A8B-HNH / VESD05A8C-HNH	35			35	35	35	35	35
36	VESD01A2-03G to VESD33A2-03G	36			36	36	36	36	36
37	VLIN26A1-03G	37			37	37	37	37	37
38	VCAN16A2-03G / VCAN16A2-03S	38			38	38	38	38	38
39	VCAN26A2-03G / VCAN26A2-03S	39			39	39	39	39	39
40	VCAN26B2-03G / VCAN26C2-03G	40			40	40	40	40	40
41	VCAN33A2-03G / VCAN33A2-03S / VCAN33C2-03G	41			41	41	41	41	41
42	VCAN36A2-03G / VCAN36A2-03S / VCAN36C2-03G	42			42	42	42	42	42
43	VLIN1616-02G / VLIN2626-02G / VLIN3333-02G	43			43	43	43	43	43
44	VLIN1626-02G	44			44	44	44	44	44
45	GSOT03 to GSOT36 / GSOT03C to GSOT36C	45			45	45	45	45	45
46	VESD33A2-03S	46			46	46	46	46	46

Bold = new product