

VISHAY ESD Protection Devices

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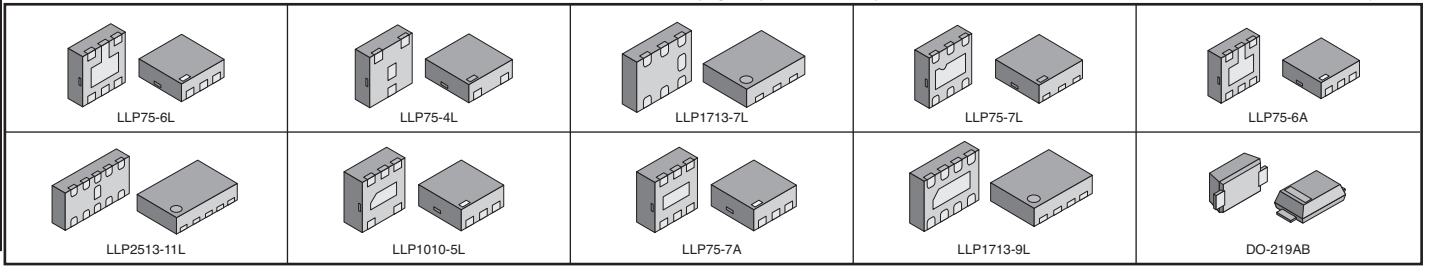
Transient Protection

Vishay Semiconductor

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Surface Mount Device

VISHAY ESD PROTECTION DIODE ARRAYS

Bidirectional Asymmetrical (BiAs) ESD Protection Diode Arrays

- Features:**
- Low leakage current: <0.1 μ A
 - Low load capacitance: $C_D = 6pF$
 - Soldering can be checked by standard vision inspection. No X-ray required.

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Package	Lines	V_{RWM} (V)	V_{BR} @ $I_t=1mA$ (V)(Min.)	I_R @ V_{RWM} (μ A)(Max.)	V_C @ I_{PPM} (Max.) (V)	I_{PPM} @ $t_p=8/20\mu s$ (A)	ESD Protection (IEC)	Price Each			
										1	100	500	1000
◆ 78-VESD09A4A-HSF	VESD09A4A-HSF-GS08	LLP75-6L	4	9	13	0.1	23	1.5	$\pm 10kV$	.20	.17	.15	.12

Bidirectional Universal Symmetrical (BUS) ESD Protection Diode Arrays

- Key Applications:**
- ESD protection for USB, HDMI, display ports, eSATA, and 1394/Firewall applications in HDTVs and mobile electronics, including portable gaming systems, MP3 players and cell phones.

For quantities of 2000 and up, call for quote.

◆ 78-VBUS052BD-HTF	VBUS052BD-HTF-GS08	LLP75-4L	2	5	6.9	0.1	16	3	$\pm 15kV$	.20	.17	.15	.12
◆ 78-VBUS052CD-FAH	VBUS052CD-FAH-GS08	LLP1713-7L	2	5	6.9	0.1	18	3.5	$\pm 15kV$	.27	.23	.19	.16
◆ 78-VBUS053AZ-HAF	VBUS053AZ-HAF-GS08	LLP75-7L	3	5.5	6.5	0.085	18	3	$\pm 30kV$	.38	.32	.28	.23
◆ 78-VBUS054B-HS3	VBUS054B-HS3-GS08	LLP75-6A	4	5	6.3	0.1	15	3	$\pm 15kV$	.36	.30	.26	.22
◆ 78-VBUS054CV-HS3	VBUS054CV-HS3-GS08	LLP75-6A	4	5	7	0.1	22	11	$\pm 30kV$	.36	.30	.26	.22
◆ 78-VBUS054CD-FHI	VBUS054CD-FHI-GS08	LLP2513-11L	4	5	6.9	0.1	18	3.5	$\pm 15kV$	.36	.30	.26	.22

Bidirectional ESD Protection Diode Arrays

For quantities of 2000 and up, call for quote.

◆ 78-VESD05A4A-HS4	VESD05A4A-HS4-GS08	LLP1010-5L	4	5	6	0.1	12	2.5	$\pm 17kV$	.21	.18	.15	.13
◆ 78-GMF05C-HS3	GMF05C-HS3-GS08	LLP75-6A	5	5	6	0.1	12.5	12	$\pm 30kV$	.32	.27	.23	.19
◆ 78-GMF05LC-HS3	GMF05LC-HS3-GS08	LLP75-6A	5	5	6	0.1	12.5	5	$\pm 30kV$	.32	.27	.23	.19
◆ 78-VESD05A6A-HA3	VESD05A6A-HA3-GS08	LLP75-7A	6	5	6	1	12	5	$\pm 30kV$	.25	.21	.18	.15
◆ 78-VESD05A8B-HNH	VESD05A8B-HNH-GS08	LLP1713-9L	8	5	6	0.5	13	4	$\pm 10kV$	.29	.25	.21	.18
◆ 78-VESD05A8C-HNH	VESD05A8C-HNH-GS08	LLP1713-9L	8	5	6	0.1	13	2.5	$\pm 12kV$	.29	.25	.21	.18

BIDIRECTIONAL ASYMMETRICAL (BIAS) ESD ZENER DIODES

- Features:**
- Low profile package
 - Optimized for LAN protection applications
 - Ideal for ESD & EFT protection of data lines
 - Low incremental surge resistance, excellent clamping capability
 - 200W peak pulse power capability with a 10/1000 μs waveform, repetition rate (duty cycle): 0.01%
 - Very fast response time
 - AEC Q101 qualified

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Package	V_{BR}		V_{WM} (V)	I_D (Max.) (μ A)	I_{PPM} (A)	V_C @ I_{PPM} (V)	C_J @ $V_R=UV$ (pF)(Typ.)	Price Each			
			(Min.) (V)	@ I_T (mA)						1	100	500	1000
◆ 78-SMF5V0A	SMF5V0A-GS08	DO-219AB	6.10	10	6.0	400	21.7	9.2	1030	.17	.14	.12	.10
◆ 78-SMF6V0A	SMF6V0A-GS08	DO-219AB	6.67	10	5.0	400	19.4	10.3	1010	.17	.14	.12	.10
◆ 78-SMF6V5A	SMF6V5A-GS08	DO-219AB	7.22	10	6.5	250	17.9	11.2	850	.17	.14	.12	.10
◆ 78-SMF7V0A	SMF7V0A-GS08	DO-219AB	7.78	10	7.0	100	16.7	12.0	750	.17	.14	.12	.10
◆ 78-SMF7V5A	SMF7V5A-GS08	DO-219AB	8.33	1.0	7.5	50	15.5	12.9	730	.17	.14	.12	.10
◆ 78-SMF8V0A	SMF8V0A-GS08	DO-219AB	8.89	1.0	8.0	25	14.7	13.6	670	.17	.14	.12	.10
◆ 78-SMF8V5A	SMF8V5A-GS08	DO-219AB	9.44	1.0	8.5	10	13.9	14.4	660	.17	.14	.12	.10
◆ 78-SMF9V0A	SMF9V0A-GS08	DO-219AB	10.0	1.0	9.0	5.0	13.5	15.4	620	.17	.14	.12	.10
◆ 78-SMF10A	SMF10A-GS08	DO-219AB	11.1	1.0	10	2.5	11.8	17.0	570	.17	.14	.12	.10
◆ 78-SMF11A	SMF11A-GS08	DO-219AB	12.2	1.0	11	2.5	11.0	18.2	460	.17	.14	.12	.10
◆ 78-SMF12A	SMF12A-GS08	DO-219AB	13.3	1.0	12	2.5	10.1	19.9	440	.17	.14	.12	.10
◆ 78-SMF13A	SMF13A-GS08	DO-219AB	14.4	1.0	13	1.0	9.3	21.5	420	.17	.14	.12	.10
◆ 78-SMF14A	SMF14A-GS08	DO-219AB	15.6	1.0	14	1.0	8.6	23.2	370	.17	.14	.12	.10
◆ 78-SMF15A	SMF15A-GS08	DO-219AB	16.7	1.0	15	1.0	8.2	24.4	350	.17	.14	.12	.10
◆ 78-SMF16A	SMF16A-GS08	DO-219AB	17.8	1.0	16	1.0	7.7	26.0	340	.17	.14	.12	.10
◆ 78-SMF17A	SMF17A-GS08	DO-219AB	18.9	1.0	17	1.0	7.2	27.6	310	.17	.14	.12	.10
◆ 78-SMF18A	SMF18A-GS08	DO-219AB	20.0	1.0	18	1.0	5.8	29.2	305	.17	.14	.12	.10
◆ 78-SMF20A	SMF20A-GS08	DO-219AB	22.2	1.0	20	1.0	6.2	32.4	207	.17	.14	.12	.10
◆ 78-SMF22A	SMF22A-GS08	DO-219AB	24.4	1.0	22	1.0	5.6	35.5	265	.17	.14	.12	.10
◆ 78-SMF24A	SMF24A-GS08	DO-219AB	26.7	1.0	24	1.0	5.1	38.9	240	.17	.14	.12	.10
◆ 78-SMF26A	SMF26A-GS08	DO-219AB	28.9	1.0	26	1.0	4.8	42.1	225	.17	.14	.12	.10
◆ 78-SMF28A	SMF28A-GS08	DO-219AB	31.1	1.0	28	1.0	4.4	45.4	210	.17	.14	.12	.10
◆ 78-SMF30A	SMF30A-GS08	DO-219AB	33.3	1.0	30	1.0	4.1	48.4	205	.17	.14	.12	.10
◆ 78-SMF33A	SMF33A-GS08	DO-219AB	36.7	1.0	33	1.0	3.8	53.3	190	.17	.14	.12	.10
◆ 78-SMF36A	SMF36A-GS08	DO-219AB	40.0	1.0	36	1.0	3.4	58.1	180	.17	.14	.12	.10
◆ 78-SMF40A	SMF40A-GS08	DO-219AB	44.4	1.0	40	1.0	3.1	64.5	165	.17	.14	.12	.10
◆ 78-SMF43A	SMF43A-GS08	DO-219AB	47.8	1.0	43	1.0	2.9	69.4	160	.17	.14	.12	.10
◆ 78-SMF45A	SMF45A-GS08	DO-219AB	50.0	1.0	45	1.0	2.8	72.7	155	.17	.14	.12	.10
◆ 78-SMF48A	SMF48A-GS08	DO-219AB	53.3	1.0	48	1.0	2.6	77.4	150	.17	.14	.12	.10
◆ 78-SMF51A	SMF51A-GS08	DO-219AB	56.7	1.0	51	1.0	2.4	82.4	145	.17	.14	.12	.10

