

# STMICROELECTRONICS Surge Protection Devices



Products may be RoHS compliant. Check mouser.com for RoHS status.



## LOW-CAPACITANCE TRANSIENT-SURGE ARRESTORS

The ETPO1 series is a low-capacitance transient-surge arrester designed to protect high data-rate communication networks. The planar technology used combines a high surge capability to comply with Telcordia GR-1089 intrabuilding and ITU-T K20/21 standards, and low capacitance to avoid distortion of high-speed signals such as with Ethernet.



For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package	ITMS	IRM@VRM (MIN)	IRM@VRM (MAX)	VBO (MAX)	Operating Temperature	Price Each			
								1	10	100	250
511-ETP01-1621RL	ETP01-1621RL	SO-08	8 A	3.3 V	16 V	25 V	-40 to +150	.70	.63	.56	.53
511-ETP01-2821RL	ETP01-2821RL	SO-08	8 A	3.3 V	28 V	36 V	-40 to +150	.70	.63	.56	.53



## ST ESD SUPPRESSORS

### Features:

- Transient over-voltage reliability
- AEC-Q101 Qualified Devices
- Ultra low leakage current
- Bidirectional Integration structure
- Increased Miniaturization
- Low Clamping Factory (V cl/ Vbr)
- RoHS Compliant
- Electrostatic Discharge Capability up to 23kV



For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package/Case	ESD Capability	Breakdown Voltage	Capacitance Voltage	Reverse Current (IR) mA-nom	Lines Protected	Price Each			
								1	10	100	250
511-DVIULC6-4SC6	DVIULC6-4SC6	SOT23	8kV-15kV	6 V	1 (pF)	1 mA	4	.98	.80	.621	.529
511-ESDA14V2L	ESDA14V2L	SOT23	8kV-15kV	5.3 V	90 (pF)	1 mA	2	.53	.44	.327	.295
511-ESDA25L	ESDA25L	SOT23	8kV-15kV	5.3 V	50 (pF)	1 mA	2	.45	.35	.275	.264
511-ESDA6V1-4BC6	ESDA6V1-4BC6	SOT23	8kV-15kV	5.3 V	45 (pF)	1 mA	4	.67	.49	.39	.32
511-ESDA6V1BC6	ESDA6V1BC6	SOT23	8kV-15kV	5.3 V	140 (pF)	1 mA	4	.97	.61	.562	.507
511-ESDA6V1L	ESDA6V1L	SOT23	8kV-15kV	5.3 V	140 (pF)	1 mA	2	.45	.39	.237	.212
511-ESDA6V1SC6	ESDA6V1SC6	SOT23	8kV-15kV	5.3 V	140 (pF)	1 mA	4	.63	.52	.432	.413
511-ESDA6V1U1-TR	ESDA6V1U1RL	SO 08	8kV-15kV	5.3 V	140 (pF)	1 mA	6	1.04	.83	.774	.653
511-ESDAULC6-3BP6	ESDAULC6-3BP6	SOT 666	8kV-15kV	5.3 V	1.5 (pF)	1 mA	3	.80	.70	.482	.439
511-USBLC6-2P6	USBLC6-2P6	SOT 666	8kV-15kV	6 V	3.5 (pF)	5 mA	2	.93	.72	.672	.556
511-USBLC6-2SC6	USBLC6-2SC6	SOT23	8kV-15kV	6 V	3.5 (pF)	5 mA	2	.93	.72	.672	.556
511-USBLC6-4SC6	USBLC6-4SC6	SOT23	8kV-15kV	6 V	3.5 (pF)	5 mA	4	1.21	1.03	.936	.792



## CROWBAR TYPE PROTECTION DIODES

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package	VBR @ IR		VBO @ IBO		IPP (A) Max.	ITSM (A) Max.	IH (mA) Min.	Price Each			
			(V) Min.	(mA) Min.	(V) Min.	(mA) Min.				1	10	100	250
			511-SMP75-8	SMP75-8	DO-2144	8				0.05	15	800	75
511-TPA62	TPA62	DO-15	62	0.05	82	300	50	30	150	.49	.44	.413	.384
511-SMTPA68	SMTPA68	DO-214AA	68	1.00	90	800	50	30	150	.70	.59	.54	.47
511-SMP100LC-8	SMP100LC-8	DO-2144	8	0.05	15	800	100	24	150	1.48	1.15	.98	.89
511-SMP100LC-35	SMP100LC-35	DO-2144	35	0.05	55	800	100	24	150	.89	.70	.643	.542
511-SMP100LC-270	SMP100LC-270	DO-214AA	270	0.05	335	800	100	24	150	.98	.71	.643	.542
511-SMTPA120	SMTPA120	DO-214AA	120	0.05	160	800	50	30	150	.72	.56	.48	.448
511-SMTPA180	SMTPA180	DO-214AA	180	0.05	240	800	50	30	150	.77	.58	.511	.43
511-SMTPA270	SMTPA270	DO-214AA	270	0.05	360	800	50	30	150	.91	.66	.585	.50
511-TPA270	TPA270	DO-15	270	0.05	360	300	50	30	150	.47	.36	.31	.28



## ESD PROTECTION AND CONTROL-LINE TERMINATION FOR HDMI INTERFACES

The high-definition multimedia interface (HDMI) is a compact audio/video connector interface for transmitting uncompressed digital streams. It represents a digital alternative to consumer analog standards such as radio frequency (RF) coaxial cables, composite video, S-Video, SCART, component video, D-terminal, and VGA. HDMI encodes the video data into the TMDS link for digital transmission over the HDMI connector.

### Features:

- Mobile Phones
- Digital Cameras and Personal Video

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package/Case	ESD Capability	Breakdown Voltage	Capacitance Voltage	Peak Pulse Current	Lines Protected	Price Each			
								1	10	100	250
511-HDMIULC6-2P6	HDMIULC6-2P6	SOT666	0.6pF@825MHz	6V	0.5pF	15kV	2	.52	.47	.42	.37
511-HDMIULC6-4SC6	HDMIULC6-4SC6	SOT23	8kV-15kV	6V	0.5pF	15kV	4	1.67	1.39	1.06	1.04
511-HDMIULC6-4F3	HDMIULC6-4F3	CSPSO	8kV-15kV	9V	0.65pF	1mA	4	1.18	1.02	.787	.693



## TRANSIENT VOLTAGE SUPPRESSORS

### SM6T Series 600 Watt ◆ Surface Mount Devices

For quantities 500 and up, call for quote.

Unidirectional					Bidirectional					Package	VBR @ IR			VRWM (V)	IRSM Max. (A)	VRSM Max. (V)		
Mfr.	Mfr. Part No.	Price Each				Mfr.	Mfr. Part No.	Price Each				Min. (V)	Max. (V)				(mA)	
		1	10	100	250			1	10		100							250
◆	511—SM6T6V8A	.56	.42	.33	.29	◆	511—SM6T6V8CA	.44	.39	.306	.25	DO-214AA	6.45	7.14	10	5.80	57.00	10.5
◆	511—SM6T18A	.40	.31	.24	.189	◆	511—SM6T10CA	.38	.29	.255	.238	DO-214AA	9.50	10.50	1	8.55	41.00	14.5
◆	511—SM6T30A	.40	.31	.272	.254	◆	511—SM6T18CA	.49	.39	.306	.25	DO-214AA	17.10	18.90	1	15.30	24.00	25.2
◆	511—SM6T33A	.60	.451	.323	.263	◆	511—SM6T22CA	.46	.374	.24	.189	DO-214AA	20.90	23.10	1	18.80	20.00	30.6
◆	511—SM6T39A	.40	.31	.272	.254	◆	511—SM6T30CA	.40	.31	.272	.254	DO-214AA	28.50	31.50	1	25.60	14.50	41.5
◆	511—SM6T68A	.48	.374	.321	.28	◆	511—SM6T39CA	.69	.53	.497	.403	DO-214AA	31.40	34.70	1	28.20	13.10	45.7
◆	511—SM6T200A	.40	.31	.272	.254	◆	511—SM6T68CA	.48	.374	.321	.28	DO-214AA	34.20	37.80	1	30.80	12.00	49.9
						◆	511—SM6T200CA					DO-214AA	37.10	41.00	1	33.30	11.10	53.9
						◆	511—SM6T68CA					DO-214AA	64.60	71.40	1	58.10	6.50	92.0
						◆	511—SM6T200CA					DO-214AA	190.00	210.00	1	171.00	2.20	274.0

### SMBJ Series 600 Watt

For quantities 500 and up, call for quote.

Mfr.	Mfr. Part No.	Price Each				Mfr.	Mfr. Part No.	Price Each				Package	Min. (V)	Max. (V)	(mA)	VRWM (V)	IRSM Max. (A)	VRSM Max. (V)
		1	10	100	250			1	10	100	250							
◆	511—SMBJ5.0A	.46	.374	.24	.189	◆	511—SMBJ5.0CA	.60	.451	.323	.263	DO-214AA	6.40	7.07	10	5.00	68.00	9.2
◆	511—SMBJ12A	.52	.37	.25	.20	◆	511—SMBJ10CA	.43	.35	.225	.177	DO-214AA	11.10	17.00	1	10.00	40.00	17.0
◆	511—SMBJ13A	.55	.413	.296	.241	◆	511—SMBJ12CA	.46	.374	.24	.189	DO-214AA	13.30	14.70	1	12.00	31.00	19.9
◆	511—SMBJ15A	.52	.37	.25	.20	◆	511—SMBJ15CA	.46	.374	.24	.189	DO-214AA	14.40	15.90	1	13.00	29.00	21.5
◆	511—SMBJ18A	.39	.29	.263	.236	◆	511—SMBJ18CA	.40	.31	.272	.254	DO-214AA	16.70	18.50	1	15.00	25.10	24.4
◆	511—SMBJ22A	.60	.451	.323	.263	◆	511—SMBJ22CA					DO-214AA	20.00	22.10	1	18.00	21.50	29.0
◆	511—SMBJ24A	.44	.29	.263	.236	◆	511—SMBJ24CA	.46	.374	.24	.189	DO-214AA	24.40	26.90	1	22.00	17.70	35.5
◆	511—SMBJ30A	.40	.31	.24	.189	◆	511—SMBJ30CA	.38	.31	.277	.221	DO-214AA	26.70	29.50	1	24.00	16.00	38.9
◆	511—SMBJ33A	.48	.374	.321	.28	◆	511—SMBJ33CA					DO-214AA	33.30	36.80	1	30.00	13.00	48.4
◆	511—SMLVT3V3	.69	.52	.468	.386	◆	511—SMBJ58CA	.42	.33	.30	.22	DO-214AA	36.70	40.60	1	33.00	11.80	53.3

