

STMICROELECTRONICS Surge Protection Devices



Transient Protection

STMicroelectronics

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

ULTRA LOW CAPACITANCE ESD PROTECTION

◆ Surface Mount Devices

MOUSER STOCK NO.		Package	Channel Lines	V _{CL} @ I _{PP} 1A (Max.)(V)	V _{RR}	Price Each				
Mfr.	Mfr. Part No.					1	10	100	250	
◆	511—HSP061-2M6	μQFN-6L	2	18	6	1	.74	.65	.50	.436
◆	511—HSP061-2N4	μQFN-4L	2	18	6	1	.66	.58	.444	.387
◆	511—HSP061-2P6	SOT-666	2	18	6	1	.70	.61	.472	.412
◆	511—HSP061-8M16	μQFN-16L	8	14	6	1	1.35	1.22	.98	.88
◆	511—HSP062-2M6	μQFN-6L	2	18	6	1	.74	.65	.50	.436
◆	511—HSP062-2P6	SOT-666	2	18	6	1	.66	.58	.444	.387

TRISIL™ TRANSIENT VOLTAGE SUPPRESSOR FOR SLIC PROTECTION

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	I _{PP} (A) (Max.)	I _{TSM} (A)	VGN (Max.) (V)	I _{GT} (Max.) (mA)	I _H (Min.) (mA)	Price Each			
1	10	100	250										
◆	511-LCP1521SRL	LCP1521SRL	SO-8	30	18	-175	5	150	.65	.60	.55	.53	
◆	511-LCDP1521SRL	LCDP1521SRL	SO-8	25	5	-175	5	150	1.65	1.41	1.22	1.17	

TRISIL™ CROWBAR TYPE PROTECTION DIODES

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	V _{RR} @ I _R		V _{RO} @ I _{RO}		Price Each			
1	10	100	250		(V) (Min.)	(mA) (Min.)	(V) (Min.)	(mA) (Min.)	1	10	100	250
◆	511-SMP75-8	SMP75-8	DO-214AA	8	0.05	15	800	1.18	1.02	.86	.78	
◆	511-SMP100LC-8	SMP100LC-8	DO-214AA	8	0.05	15	800	1.18	.95	.67	.63	
◆	511-SMP100LC-35	SMP100LC-35	DO-214AA	35	0.05	55	800	.95	.83	.62	.55	
◆	511-SMP80MC-270	SMP80MC-270	DO-214AA	270	0.005	345	800	.75	.67	.51	.45	
◆	511-SMP100LC-270	SMP100LC-270	DO-214AA	270	0.05	335	800	.53	.47	.41	.39	
◆	511-TPA270	TPA270	DO-15	270	0.05	360	300	.88	.76	.60	.52	

TRISIL™ ASD OVERVOLTAGE ESD PROTECTION

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	I _{PP} (A) (Max.)	I _{TSM} (A)	t _p (ms)	Voltage Switching-On (V)	Price Each			
1	10	100	250									
◆	511-CLP30-200B1RL	CLP30-200B1RL	SO-8	40	8.5	10	290	2.89	2.50	2.21	1.98	

EMI FILTER AND ESD PROTECTION

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		V _{RR}		I _{RM}		Price Each				
1	10	100	250	Min. (V)	Max. (V)	@ I _R (mA)	(nA)	@ V _{RM}	1	10	100	250
IPAD™ for Audio and Video												
◆	511-EMIF02-MIC07F3	EMIF02-MIC07F3	7	----	1	200	3	1.36	1.21	.96	.83	
IPAD™ for displays, cameras and keypads												
◆	511-ECMF04-4AMX12	ECMF04-4AMX12	6	----	1	100	1.5	1.09	.97	.78	.67	
IPAD™ for memory and SIM cards												
◆	511-EMIF06-MSD02C3	EMIF06-MSD02C3	14	----	1	1000	3	1.36	1.21	.96	.83	
◆	511-EMIF06-MSD02N16	EMIF06-MSD02N16	5	8	1	200	3	2.87	2.45	2.00	1.80	
IPAD™ for micro-SD Card												
◆	511-EMIF06-MSD03F3	EMIF06-MSD03F3	14	----	1	100	3	.57	.513	.413	.358	
◆	511-EMIF06-MSD04F3	EMIF06-MSD04F3	14	16	----	1000	3	.64	.56	.50	.42	
IPAD™ for PS/2 Mouse or Keyboard ports												
◆	511-KBMF01SC6	KBMF01SC6	6	----	1	10000	5	1.48	1.35	1.10	.97	
IPAD™ for USB interfaces												
◆	511-ECMF02-2AMX6	ECMF02-2AMX6	6	----	1	100	1.5	.92	.78	.62	.572	
◆	511-EMIF02-USB04F3	EMIF02-USB04F3	7	----	1	100	3	.82	.71	.56	.47	
◆	511-USBDF02W5	USBDF02W5	6	----	1	----	----	.96	.85	.74	.71	

Signal Mounting

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	Pkg Size (mm)	ESD Capability	Impedance (Ω)	Frequency Range (MHz)	Insertion Loss (dB)	Coupling Factor	High Directivity (dB)	Operating Temperature	Price Each			
1	10	100	250													
◆	511-CPL-WB-01D3	CPL-WB-01D3	FlipChip-6	1.0x1.3	8kV to 15kV	50	824-2170	>20	26	20	-30 to +85	.70	.608	.48	.416	
◆	511-CPL-WB-00C2	CPL-WB-00C2	FlipChip-6	1.2x1.7	8kV to 15kV	50	824-2170	>20	34	25	-30 to +85	1.70	1.47	1.15	1.01	
◆	511-CPL-WB-00D3	CPL-WB-00D3	FlipChip-6	1.0x1.3	8kV to 15kV	50	824-2170	>20	34	25	-30 to +85	.68	.57	.45	.39	
◆	511-DCPL-WB-00D3	DCPL-WB-00D3	FlipChip-8	1.44x1.67	8kV to 15kV	50	824-2170	>20	34	>20	-30 to +85	.92	.78	.62	.54	

TRANSIL™ DIODE ARRAYS

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	V _{RR} @ I _R		V _{CL} @ I _{PP}		I _{RM} @ V _{RM}		Capacitance (Max.)(pF)	Price Each			
1	10	100	250		(V) (Min.)	(mA) (Min.)	(V) Typ.	(mA) (Min.)	(μA) (Max.)	(V) (Max.)		1	10	100	250
◆	511-HSP061-4NY8	HSP061-4NY8	μQFN-8L	6	1.00	18	3	0.001	3	0.8	.43	.38	.33	.31	
◆	511-ITA6V1U1-TR	ITA6V1U1-TR	SO-8	6.51	1.00	10	10	10	5	1500	1.65	1.41	1.22	1.17	
◆	511-ITA10B1	ITA10B1	SO-8	10	1.00	25	1	4	15	570	2.15	1.94	1.56	1.39	
◆	511-ITA18B1	ITA18B1	SO-8	18	1.00	10	10	10	5	750	2.15	1.30	1.05	1.01	

OVERVOLTAGE PROTECTION DEVICES

◆ Surface Mount Devices

MOUSER STOCK NO.		STM Part No.		Package	Input Voltage (V)	ICC Operating Current (Typ)	Overvoltage Threshold (V)	Undervoltage Threshold (V)	Operating Temp Range (°C)	Price Each			
1	10	100	250										
◆	511-STBP110CVDJ6F	STBP110CVDJ6F	TDFN-8	28	140	5.90	3.25	-40 to +85	.96	.767	.67	.588	
◆	511-STBP110ETDJ6F	STBP110ETDJ6F	TDFN-8	28	140	6.40	2.70	-40 to +85	.96	.767	.67	.588	
◆	511-STBP110GTDJ6F	STBP110GTDJ6F	TDFN-8	28	140	7.20	2.70	-40 to +85	.96	.767	.67	.588	

