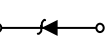
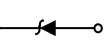
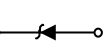
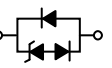
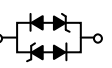
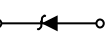
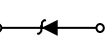




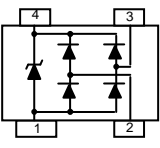
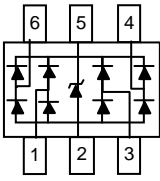
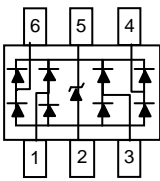
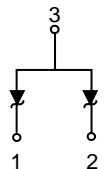
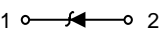
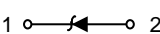
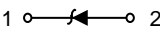

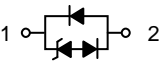
# Changshu Talent Semiconductors Co.Ltd

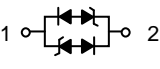
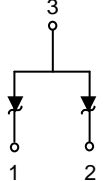
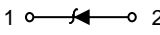
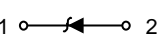
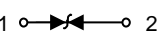
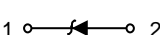

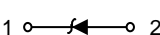
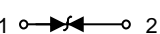
## ESD Protection Devices Selection Guide



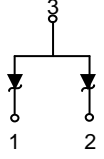
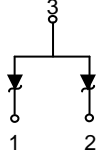
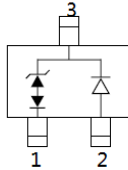
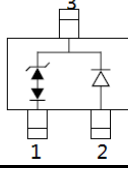
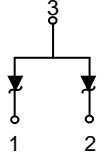
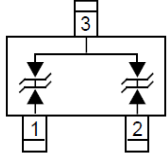
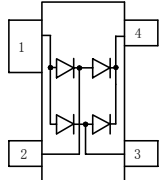
CTS Part Number	Description	Package Type	Internal Configuration	Reverse Standoff Voltage VRWM(V)	Breakdown voltage VBR(V) Min@IT	Peak Power Dissipation PPK	Maximum Peak Pulse Current IPP	Maximum Reverse Leakage IR@VRWM	Maximum Clamping Voltage VC @MAX IPP	MAX Cj@VR=0V, f=1MHZ
				V	V	w	A	uA	V	pF
ESD3V3D7	Single line ESD protection	SOD-723	1  2	3.3	5	113	10.4	2.5	11.9	80
ESD3V3D5	Single line ESD protection	SOD-523	1  2	3.3	5	158	11.2	0.08	14.1	105
ESD3V3D3	Single line ESD protection	SOD-323	1  2	3.3	5	500	7	1	9.3	TYP 100
ESDLC3V3D3	Single line ESD protection	SOD-323	1  2	3.3	4	350	28	1	36	TYP 4.5
ESDLC3V3D3B	Single line ESD protection	SOD-323	1  2	3.3	4	350	28	1	36	TYP 4.5
ESD5V0D7	Single line ESD protection	SOD-723	1  2	5	6.2	117	8.8	1	13.3	85
ESD5V0D5	Single line ESD protection	SOD-523	1  2	5	6.2	174	9.4	0.08	18.6	80



ESD5V0D3	Single line ESD protection	SOD-323		5	6.2	350	15	1	15.5	350
ESDLC5V0D3	Single line ESD protection	SOD-323		5	6	350	21	1	32	TYP 5
ESDLC5V0D3B	Single line ESD protection	SOD-323		5	6	350	21	1	32	TYP 5
SM05	1,2 line ESD protection	SOT-23		5	6.2	300	12	10	9.8	225
ESD5V0L4	2,3,4 line ESD protection	SOT-553		5	6	100	5	5	13.5	TYP 32
ESD5V0M5	4,5 line ESD protection	SOT-563		5	6	100	5	5	13.5	TYP 32
ESD5V0J4	2,3,4 line ESD protection	SOT-353		5	6	100	5	5	12.5	35
ESD5V0K5	4,5 line ESD protection	SOT-363		5	6	100	5	8	12.5	35

<b>New</b>											
ESD5V0T14 3-4U	2 line ESD protection	SOT-143		5	6	500	...	5	...	3	
SRV05-4L	4,5 line ESD protection	SOT23- 6L		5	6	...	...	1	...	TYP 1.5	
SRV05-4	4,5 line ESD protection	SOT-363		5	6	...	...	1	...	TYP 1.5	
ESDA6V1L	1,2 line ESD protection	SOT-23		5.25	6.1	300	...	20	...	140	
ESD7V0D5	Single line ESD protection	SOD-523		7	7.5	200	8.8	0.03	22.7	65	
ESD12VD7	Single line ESD protection	SOD-723		12	13.5	128	5.4	1	23.7	30	
ESD12VD5	Single line ESD protection	SOD-523		12	14.1	240	9.6	0.02	29	55	
ESD12VD3	Single line ESD protection	SOD-323		12	13.3	350	12	1	33	150	
ESDLC12VD 3	Single line ESD protection	SOD-323		12	13.3	350	11	1	28.6	TYP 3	

ESDLC12VD 3B	Single line ESD protection	SOD-323		12	13.3	350	11	1	28.6	TYP 3
SM12	1,2 line ESD protection	SOT-23		12	13.3	300	11.2	1	19	95
<b>*NEW*</b> ESD3V3D9	Single line ESD protection	SOD-923		3.3	5	100	5	1	8.8	50
<b>*NEW*</b> ESD5V0D9	Single line ESD protection	SOD-923		5	6	100	5	1	11	40
<b>*NEW*</b> ESD5V0D9B	Single line ESD protection	SOD-923		5	5.6	80	...	1	...	15(Typ)
<b>*NEW*</b> ESD7V0D9	Single line ESD protection	SOD-923		7	5	100	5	1	14.8	30
<b>*NEW*</b> ESD12VD9	Single line ESD protection	SOD-923		12	13.5	100	1	1	18.4	15(Typ)
<b>*NEW*</b> ESDLC5V0D 9	Single line ESD protection	SOD-923		5	5.4	100	1	1	9.8	0.5(Typ)
<b>*NEW*</b> ESDLC5V0D 9B	Single line ESD protection	SOD-923		5	5.6	80	...	1	...	2.1(Typ)

<b>*NEW*</b>	ESDSL5V0D9B	Single line ESD protection	SOD-923		5	5.6	80	...	1	...	0.6(Typ)
<b>*NEW*</b>	ESD12VD3B	Single line ESD protection	SOD-323		12	13.5	350	1	1	15.5	100
<b>*NEW*</b>	ESDLC5V0T7	1,2 line ESD protection	SOT-723		5	5.6	110	5	1	Pin1~Pin2: 23 Pin1/Pin2~Pin3:20	Pin1~Pin2:2 Pin1/Pin2~Pin3:3.5
<b>*NEW*</b>	ESDLC5V0T5	1,2 line ESD protection	SOT-523		5	5.6	125	5	1	Pin1~Pin2: 23 Pin1/Pin2~Pin3:20	Pin1~Pin2:2 Pin1/Pin2~Pin3:3.5
<b>*NEW*</b>	ESDLC5V0T2	1,2 line ESD protection	SOT-23		5	6.2	500	5	0.5	10	3(Typ)
<b>*NEW*</b>	SLVU2.8	1,2 line ESD protection	SOT-23		2.8	3	500	5	1	8	13(Typ)
<b>*NEW*</b>	SM22	1,2 line ESD protection	SOT-23		22	23.5	225	1	1	38	80(Typ)
<b>*NEW*</b>	SM712	1,2 line ESD protection	SOT-23		Pin3~Pin1/Pin2:7 Pin1/Pin2~Pin3:12	Pin3~Pin1/Pin2:7.5 Pin1/Pin2~Pin3:13.3	400	12	10	Pin3~Pin1/Pin2:10.5 Pin1/Pin2~Pin3:21	45(Typ)
<b>*NEW*</b>	SR70	2 lines ESD protection	SOT-143		70	85	...	24	20	7	Between I/O pins and Ground:10 Between I/O pins:3(Typ)



<b>*NEW*</b>	ESDLC5V0D FN10	4 I/O lines ESD protection	DFN-10		5	6	150	5	1	28	0.5(Typ)
<b>*NEW*</b>	ESD2V8P8U	4,5 line ESD protection	SOP-8		2.8	3	400	...	1	...	3

MCC Part Number	Description	Package Type	Internal Configuration	Max Continuous Operating Voltage	Type Trigger Voltage@ 8KV	Type Clamping Voltage@8 KV	Max Leakage Current@Max VDC	MAX Cj@VR=0V,f=1MHZ
				V	V	V	nA	pF
MLESD08A- 2510	ESD protection for high speed data lines	2510		8	300	15	10	0.3
MLESD12A- 0402	ESD protection for high speed data lines	0402		12	300	20	10	0.3
MLESD24B- 0603	ESD protection for high speed data lines	0603		24	500	36	10	0.3