



深圳市晶扬电子有限公司

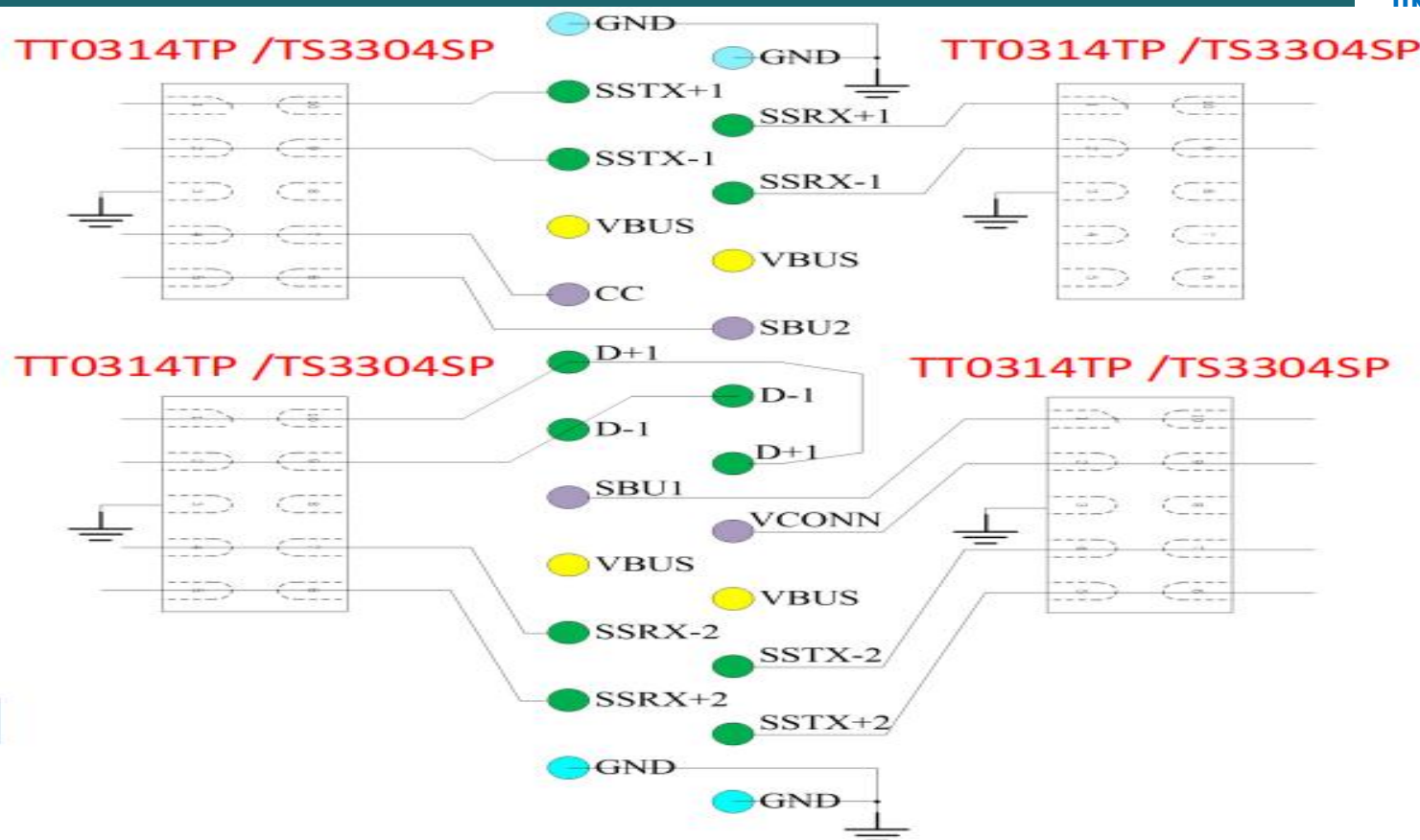
SHEN ZHEN JINGYANG ELECTRONICS CO.,LTD

家用电器与消费电子的ESD防护电路推荐

手机USB TYPE-C防护推荐



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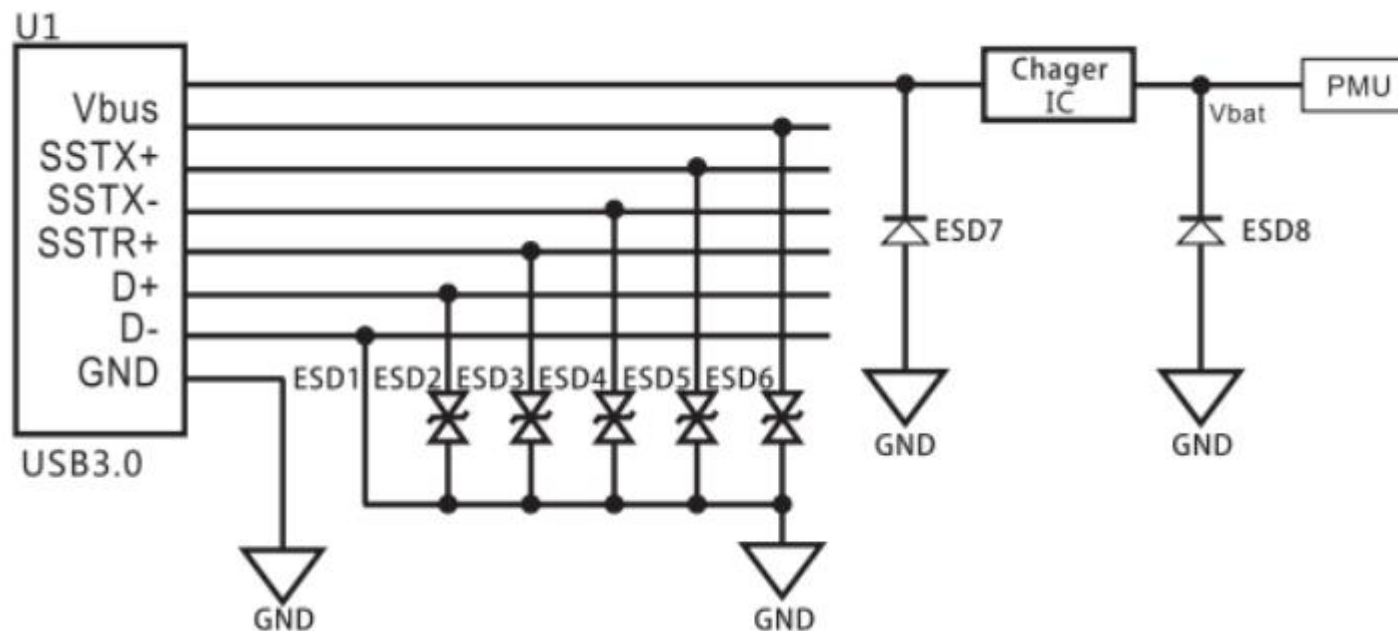


Application	Part No.	Capsulation	Channels	Direction	V _{rwm} (V)	C _j @1MHz (pF)	V _c @I _{pp} (V)	IEC Contact (kV)	IEC Air (kV)
TYPE-C	TT0314TP	DFN2510-10L	4	Uni	3.3	0.35	3.5V@5A	15	15
	TT3304SP	DFN2510-10L	4	Bi	3.3	0.2	5V@6A	8	10

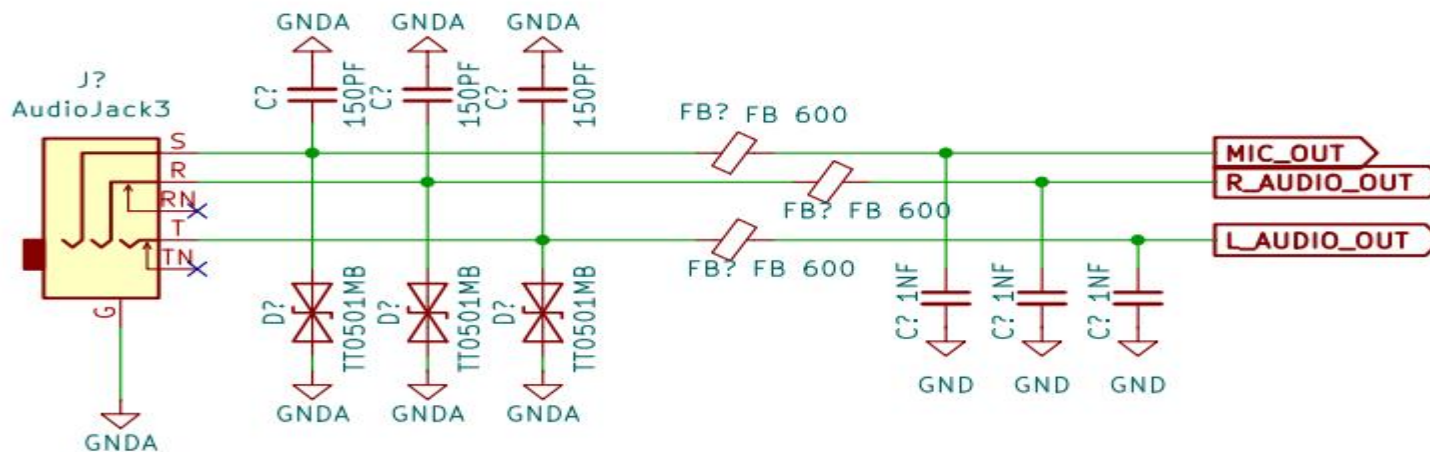
手机USB VCHARGE和VBAT防护推荐



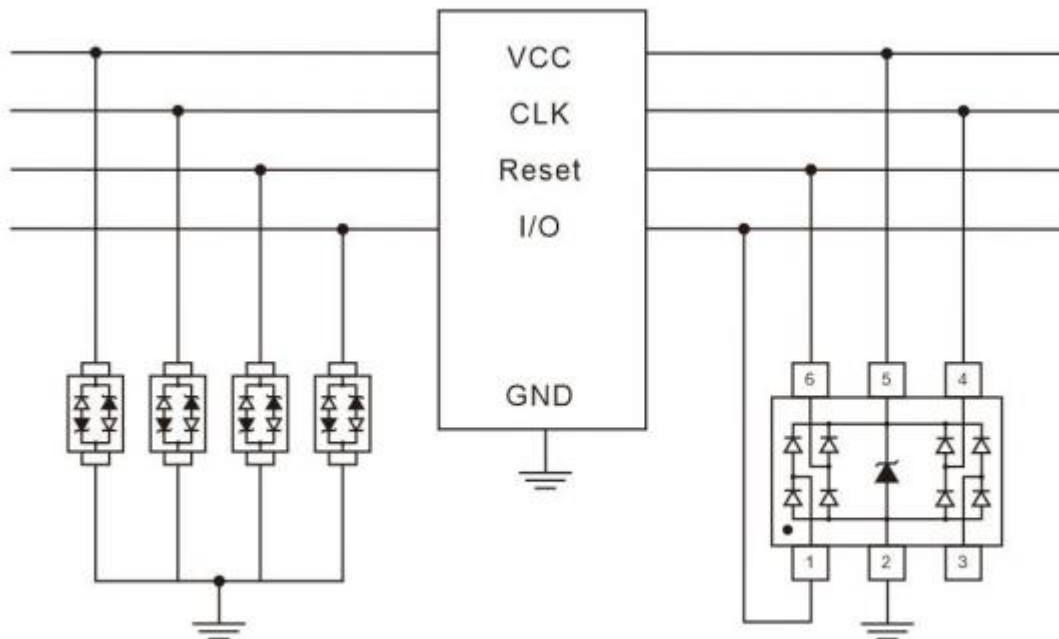
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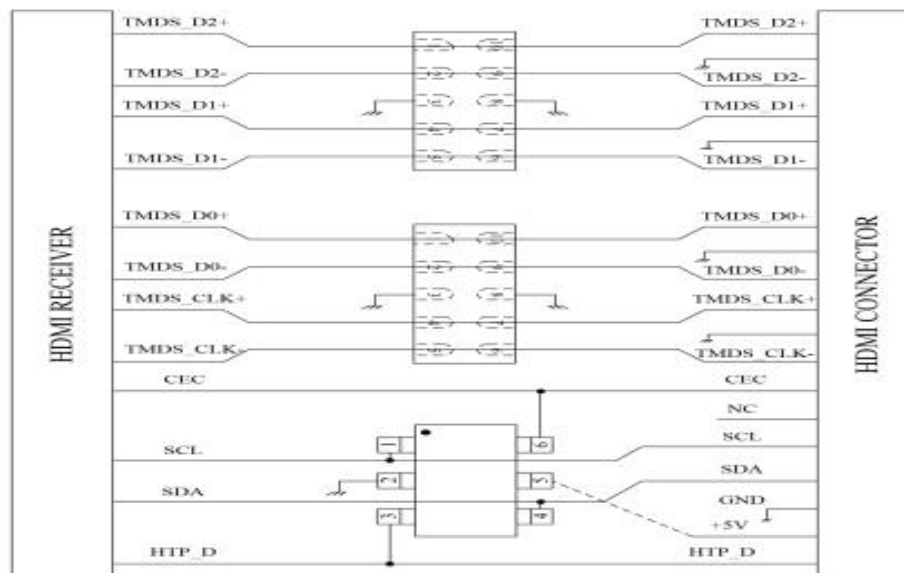
Application	Part No.	Capsulation	Channels	Direction	V _{rw} (V)	C _j @1MHz (pF)	V _c @I _{PP} (V)	IEC Contact (kV)	IEC Air (kV)
VCHARGE//VBAT	TS0431LE	SOD-323	1	Uni	4.5	980	15V@140A	30	30
	TS0421LE	SOD-323	1	Bi	4.5	300	20V@150A	30	30
	TS0451LJ	DFN2020-3L	1	Uni	4.5	880	18V@300A	30	30
	TS1231LJ	DFN2020-3L	1	Uni	12	1300	26V@170A	30	30
	TT0541SB	DFN1006	1	Bi	5	0.3	15V@4.5A	20	25



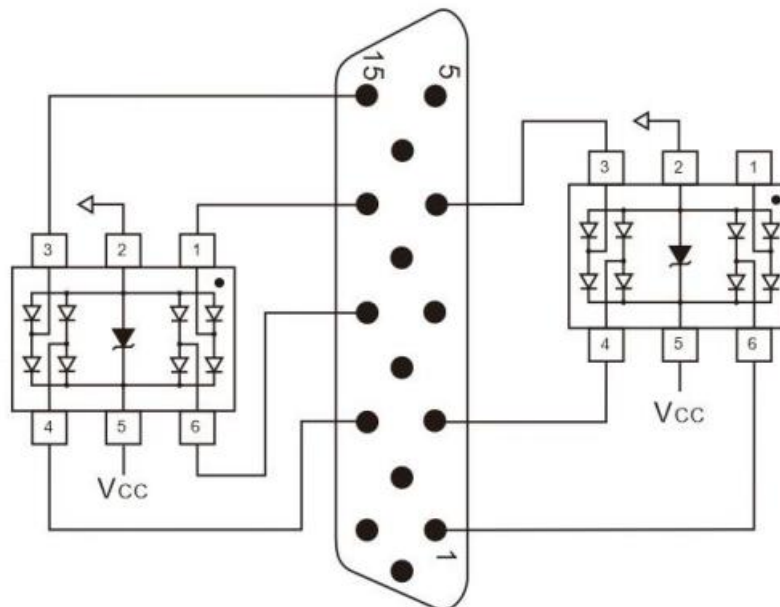
Application	Part No.	Capsulation	Channels	Direction	V _{rw} (V)	C _j @1MHz (pF)	V _c @I _{pp} (V)	IEC Contact (kV)	IEC Air (kV)
TYPE-C	TT0501MB	DFN1006	1	Bi	5	12	12V@4A	30	30
	TT0521NB	DFN1006	1	Bi	5	12	9V@10A	30	30
	TT0501MA	DFN0603	1	Bi	5	12	15V@4A	30	30



Application	Part No.	Capsulation	Channels	Direction	V _{rw} (V)	C _j @1MHz (pF)	V _c @I _{pp} (V)	IEC Contact (kV)	IEC Air (kV)
SIM	TT0521SB	DFN1006	1	Bi	5	0.35	13V@4A	20	25
	TT0514TL	SOT23-6	4	Uni	5	0.6	13V@3A	17	27
	TT0501SA	DFN0603	1	Bi	5	0.25	13V@4A	20	20



Application	Part No.	Capsulation	Channels	Direction	V _{rwm} (V)	C _j @1MHz (pF)	V _c @I _{PP} (V)	IEC Contact (kV)	IEC Air (kV)
HDMI	TT0514SP	DFN2510-10L	4	Uni	5	0.5	10V@4A	20	20
	TT3304SP	DFN2510-10L	4	Bi	3.3	0.2	5V@6A	8	10
	TT0514TL	SOT23-6	4	Uni	5	0.6	13V@3A	17	27



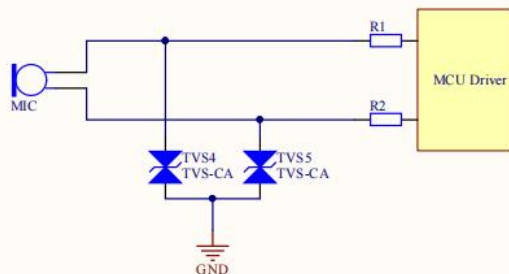
Application	Part No.	Capsulation	Channels	Direction	V _{rw} (V)	C _j @1MHz (pF)	V _C @I _{PP} (V)	IEC Contact (kV)	IEC Air (kV)
VGA	TT0534TL	SOT23-6	4	Uni	5	0.5	11V@4.5A	17	25
	TT0514TL	SOT23-6	4	Uni	5	0.6	13V@3A	17	27

TWS防护推荐

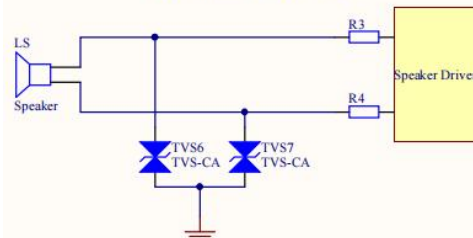


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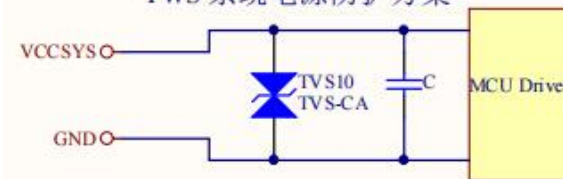
TWS MIC防护方案



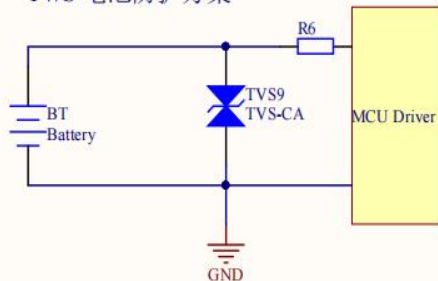
TWS Speaker 防护方案



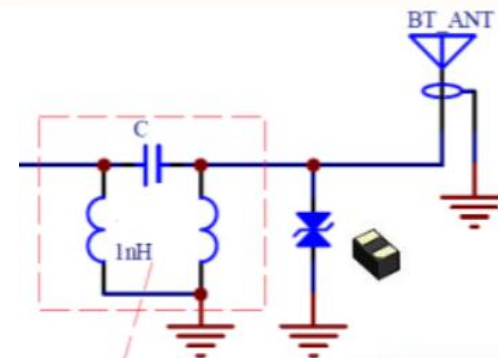
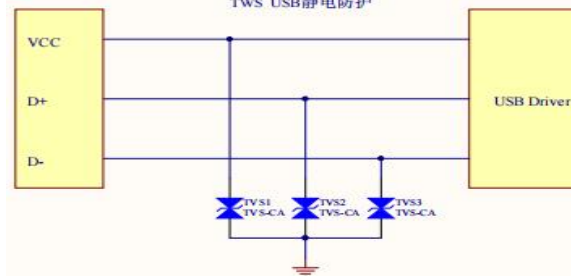
TWS 系统电源防护方案



TWS 电池防护方案

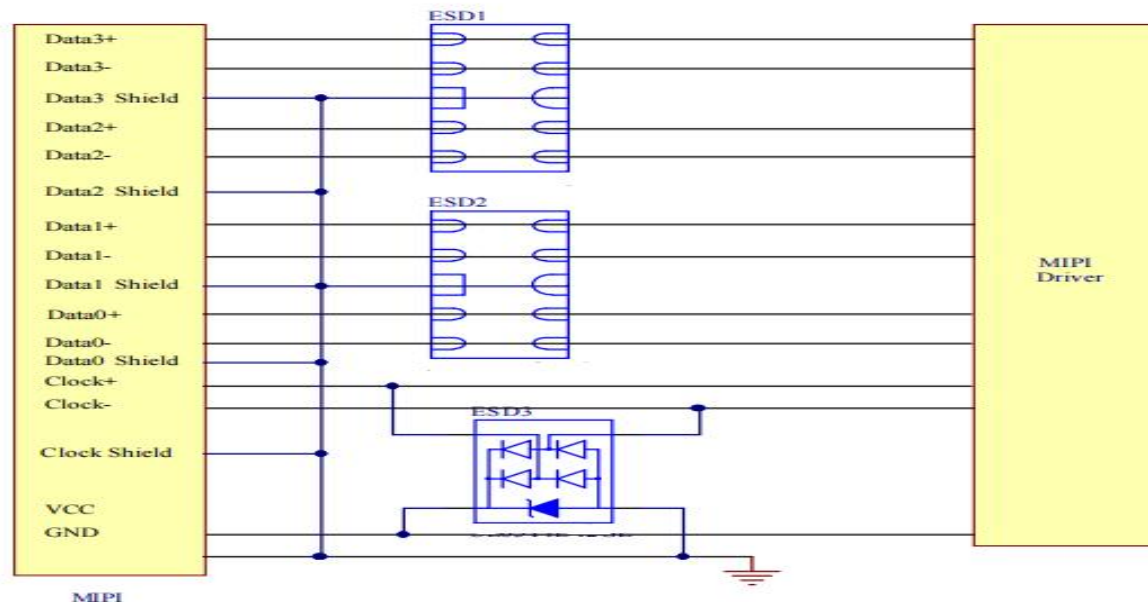


TWS USB静电防护



Application n	Part No.	Capsulation n	Channels	Direction	V _{rw} m (V)	C _j @1MHz (pF)	V _C @I _{PP} (V)	IEC Contact (kV)	IEC Air (kV)
RF/MIC/Speaker/Touch/Power/USB	TT0501MA	DFN0603	1	Bi	5	12	15V@4A	30	30
	TT0501MB	DFN1006	1	Bi	5	12	12V@4A	30	30
	TT0501NA	DFN0603	1	Bi	5	18	8.5V@8A	30	30
	TT0501SB	DFN1006	1	Bi	5	0.35	13V@4A	20	25
	TT0321SA	DFN0603	1	Bi	3.3	0.27	5.2V@5.5A	8	17
	TT0701MB	DFN1006	1	Bi	7	15	12V@6A	30	30
	TT0751LD	DFN1610-2L	1	Uni	7	760	25V@100A	30	30

MIPI-DSI (LVDS)



Application	Part No.	Capsulation	Channels	Direction	Vrwm (V)	Cj @1MHz (pF)	Vc @Ipp (V)	IEC Contact (kV)	IEC Air (kV)
MIC, USB, MIPI, LVDS	TT3304SP	DFN2510-10L	4	Bi	3.3	0.2	5V@6A	8	10
	TT0514TL	SOT23-6	4	Uni	5	0.6	13V@3A	17	27
	TT0524SP	DFN2510-10L	4	Bi	5	0.3	12V@4A	25	25
	TT0501SA	DFN0603	1	Bi	5	0.25	13V@4A	20	20
	TT0501SB	DFN1006	1	Bi	5	0.35	13V@4A	20	25



Thank you

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