



质优 价优 服务优
Good quality, price and excellent service

PRODUCT CATALOGUE

产品目录

香港天微
深圳晶扬



公司简介

COMPANY PROFILE



香港天微电子有限公司(TITAN MICRO ELECTRONICS CO.,LTD)是专业从事IC设计、生产、销售及系统集成的IC DESIGN HOUSE, 深圳市晶扬电子有限公司(SHENZHEN JINGYANG ELECTRONICS CO.,LTD)是香港天微电子在华南地区的分支机构, 并代理经销国内外品牌IC的高科技型企业,是国内最早从事电子元器件贸易配套服务的知名品牌公司,在美国、北京、杭州设立有研发中心。本公司利用珠江三角洲的地缘优势,拥有数名来自国内外知名企业、具有丰富经验的专业设计、研发人才,现经营电子、微电子器件产品,相当一部分拥有独立的自主知识产权,自行完成设计、生产、测试和封装等全部环节,已经形成了完整而领先的生产经营体系。

本公司自成立开始,始终秉持“信誉为本,质量第一,顾客至上”的经营理念。公司不断成长壮大,日臻完善机制,现已发展营造了以华南深圳为中心,辐射国内外各地的庞大经销体系,为各区域顾客提供经济、快捷、方便的IC配套服务。

本公司现在的产品系列包括LED显示驱动芯片、ESD TVS芯片、ESD+EMI系列芯片、ESD+防雷类芯片、通用型及高精度电压基准芯片、通用型及高精度运算放大器芯片、麦克风前置放大器系列芯片、电源管理芯片(DC-DC&AC-DC)、USB开关IC、达林顿管IC、硅麦克风、压力传感器等,主要面对国际上的大型手机研发及生产企业、机顶盒研发及生产厂家、电视机厂家、监控设备厂家、计算机及笔记本研发生产企业、工控及医疗仪器企业、麦克风研发及生产企业及各种消费类、多媒体类的方案公司提供IC设计及系统集成方案。我们今天所取得的成绩,取决于新老客户的大力支持与厚爱,今后我们将以更好的三优服务——质优、价优、服务优,来回馈客户多年来对香港天微及晶扬电子公司一如既往的信任与合作!

我们将“超越创新”作为企业发展的战略方针,密切关注国际上集成电路的发展趋势,希望您共谋发展、携手共进,为科技的发展和电子行业的繁荣作出应有的贡献!

Titan Micro Electronics Co.,Ltd is an IC design house focusing on IC design,sales and system integration. Shenzhen JingYang Electronics Co., LTD is the branch company in south region,which is the agent of the global famous IC.We are the pioneer in the trade of electronic components supporting services and have our own research and development centers in Beijing & Hangzhou.By our geographic advantage,the Pearl River Delta and there search talents from both China and overseas' famous companies,we can independently complete the whole process from IC design, IC test to IC package .Most of our electronic and micro electronic products own proprietary intellectual property rights.

We have the ethic that "Honesty count. Quality first.Customer upmost" all the time.Through several years' development, have formed a mature,leading organization based in Shenzhen and expanded to the world .

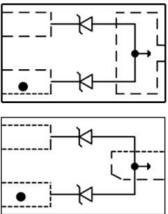
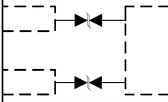
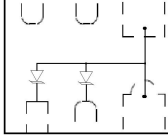
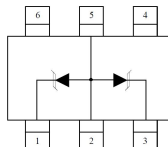
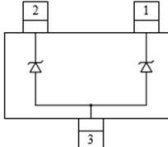
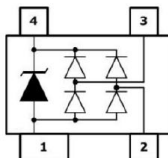
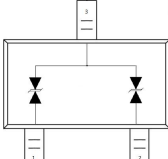
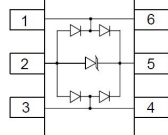
Now,we mainly supply LED Driver IC、ESD TVS IC、ESD+EMI IC series、ESD+Surge IC、High accuracy voltage reference IC、Standard Amplifiers&High accuracy Amplifiers、Microphone Pre-amplifier IC series、Power IC series (DC-DC&AC-DC)、USB Switch IC、Darlington Cube IC、silicon microphone,pressure sensor,etc. These products and technologies add benefits for many international large-scale manufacture enterprises on mobile phones,set-box,TV,video surveillance,PC&Notebook,control machines,medical equipments,microphones' reserach&development. Besides, various consumable or multi-media companies get IC design and system integration solution from us.Our achievements are closely connected with customers' continuous supports and concerns.We commit provide more sincere, qualified, cost-effective service in future as repay.Thanks for choosing and trusting us.

Exceeding and innovation are company' s operation strategy.We persist in focusing the international trend for IC,hope can make improvements and contributions to the electronics field with you together.

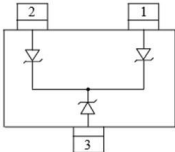
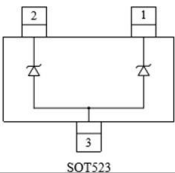
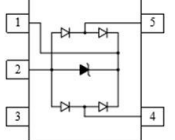
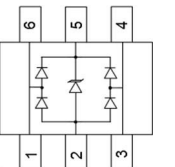
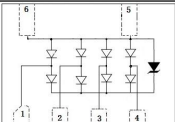
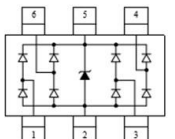
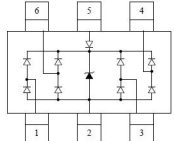
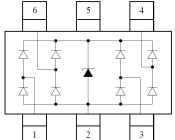


Configuration	Product	Package	VRWM (v)	VBR (v)	VC@IPP=1A (v)	Channels	IR (u A)	Cj (pF)	Ipp (A)
	TT0301MA	DFN0603-2L	3.3	6	8.5	1	0.1	12	5
	TT0501MA	DFN0603-2L	5	7	8.5	1	0.1	12	5
	TT0501PA	DFN0603-2L	5	7	8.5	1	0.1	6	4.5
	TT0501SA	DFN0603-2L	5	8	10	1	0.1	0.2	5
	TT0511TA	DFN0603-2L	5	7	10	1	0.1	0.6	5
	TT0301MB	DFN1006-2L	3.3	6	8.5	1	0.1	12	5
	TT0501MB	DFN1006-2L	5	7	8.5	1	0.1	12	5
	TT0501NB	DFN1006-2L	5	7	8.5	1	0.1	35	8
	TT0501VB	DFN1006-2L	5	8	11	1	0.1	1	5
	TT0501PB	DFN1006-2L	5	7	8.5	1	0.1	6	4.5
	TT0521SB	DFN1006-2L	5	8	11	1	0.1	0.35	3.5
	TT0501SB	DFN1006-2L	5	8	11	1	0.1	0.35	3.5
	TT0821SB	DFN1006-2L	8	11	16	1	0.1	0.35	3
	TT1201SB	DFN1006-2L	12	16	20	1	0.1	0.35	2.5
	TT1521SB	DFN1006-2L	15	19	27	1	0.1	0.35	2
	TT0511TB	DFN1006-2L	5	7	10	1	0.1	0.6	5
	TT0501MC	SOD923	5	7	8.5	1	0.1	12	5
	TT0501SC	SOD923	5	8	10	1	0.1	0.35	3.5
	TT0511TC	SOD923	5	7	10	1	0.1	0.6	5
	TT0501MD	SOD523	5	7	8.5	1	0.1	12	5
	TT3311ND	SOD523	3.3	5	9.4V@5A	1	0.9	105	11
	TT0511ND	SOD523	5	7	11.6V@5A	1	0.08	80	9
	TT0711ND	SOD523	7	9	13.5V@5A	1	0.03	65	8
	TT1211ND	SOD523	12	14	23V@5A	1	0.02	55	7
	TT0511TE	SOD323	5	7	10	1	0.1	0.6	5



Configuration	Product	Package	VRWM (v)	VBR (v)	VC@IPP=1A (v)	Channels	IR (u A)	Cj (pF)	Ipp (A)
	TT0512TB	DFN1006-3L	5	8	10	2	0.1	0.8	3.5
	TT0502PB	DFN1006-3L	5	7	8.5	2	0.1	6	4.5
	TT0512TD	DFN1610-6L	5	8	10	2	0.1	0.8	3.5
	TT0512TL	SOT23-6L	5	8	10	2	0.1	0.6	3.5
	TT0532TL	SOT23-3L	5	8	10	2	0.1	0.8	3.5
	TT0512TM	SOT143	5	8	11	2	0.1	0.9	5
	TT0502PL	SOT23-3	5	7	8.5	2	0.1	6	4.5
	TT0512VL	SOT23-6	5	8	12	2	0.1	0.8	3



Configuration	Product	Package	VRWM (v)	VBR (v)	VC@IPP=1A (v)	Channels	IR (u A)	Cj (pF)	Ipp (A)
	TT0502SL	SOT23-3L	5	8	10	2	0.1	0.2	5
	TT0512TF	SOT523	5	8	10	2	0.1	0.8	3.5
	TT0512TG	SOT553	5	8	11	2	0.1	0.6	5
	TT0512TH	SOT563	5	8	12	2	0.1	0.9	3
	TT0514TD	DFN1710-6L	5	8	11	2	0.1	0.4	5
	TT0514TL	SOT23-6L	5	8	12	4	0.1	0.8	3.5
	TT0514VL	SOT23-6L	5	8	12	4	0.1	1	3.5
	TT0534TL	SOT23-6L	5	8	11	4	0.1	0.6	5
	TT0534VL	SOT23-6L	5	8	11	4	0.1	0.6	5



Configuration	Product	Package	VRWM (v)	VBR (v)	VC@IPP=1A (v)	Channels	IR (u A)	Cj (pF)	Ipp (A)
	TT0514TH	SOT563	5	8	12	4	0.1	0.6	3.5
	TT0514TJ	SOT363	5	8	11	4	0.1	0.6	5
	TT0514TQ	DFN1616-6L	5	8	11	4	0.1	0.45	5
	TT0564SN	DFN2010-5L	5	8	12	4	0.1	0.2	5
	TT0514TP	DFN2510-10L	5	8	12	4	0.1	0.6	5
	TT0514SP	DFN2510-10L	5	8	11	4	0.1	0.4	5
	TT0504SP	DFN2510-10L	5	8	12	4	0.1	0.2	5
	TT0524SP	DFN2510-10L	5	8	12	4	0.1	0.2	5
	TT0514TV	MSOP-10	5	8	12	4	0.1	0.6	5
	TT0514PV	MSOP-10	5	8	12	4	0.1	1	5
	TT0515PH	SOT563	5	8	11	4	0.1	6	5
	TT0515TJ	SOT363	5	8	11	5	0.1	0.4	5



Configuration	Product	Package	VRWM (v)	VBR (v)	VC@IPP=1A (v)	Channels	IR (u A)	Cj (pF)	Ipp (A)
	TT0515TL	SOT23-6L	5	8	11	5	0.1	0.4	5
	TT0516SU	MSOP-8	5	8	11	6	0.1	0.4	5
	TT0506SU	MSOP-8	5	8	12	6	0.1	0.2	5
	TT0516ST	DFN4120-10L	5	8	11	6	0.1	0.4	5
	TT0506ST	DFN4120-10L	5	8	12	6	0.1	0.2	5
	TT0508SW	DFN3810-9L	5	8	12	8	0.1	0.2	5
	TT0508SX	DFN5515-18L	5	8	12	8	0.1	0.2	5
	TT0518TV	MSOP-10L	5	8	11	8	0.1	0.4	5



Surge protection IC:

Configuration	Product	Package	VRWM (v)	VBR (v)	Vc(V) @IPP(A)	Ir (u A)	Cj (pF)	Ipp (A)	Ppk (W)
	TS2501PB	DFN1006-2L	2.5	3.2	6V@2A	0.1	4.5	12	150
	TS3301PB	DFN1006-2L	3.3	4.7	6V@2A	0.1	4.5	12	150
	TS0511LB	DFN1006-2L	5	6	9.8V@5A	1	200	24	350
	TS0811LB	DFN1006-2L	8	9.2	15V@5A	1	150	20	350
	TS1211LB	DFN1006-2L	12	13.3	20V@5A	1	100	14	350
	TS1511LB	DFN1006-2L	15	16.7	30V@5A	1	75	10	350
	TS1811LB	DFN1006-2L	18	20	42V@3A	1	62	7	350
	TS2411LB	DFN1006-2L	24	26	40V@2A	1	50	6	350
	TS0501LB	DFN1006-2L	5	7	9.8V@5A	1	200	24	350
	TS0801LB	DFN1006-2L	8	10	15V@5A	1	150	20	350
	TS1201LB	DFN1006-2L	12	14	20V@5A	1	100	14	350
	TS1501LB	DFN1006-2L	15	17	30V@5A	1	75	10	350
	TS1801LB	DFN1006-2L	18	21	42V@3A	1	62	7	350
	TS2401LB	DFN1006-2L	24	27	40V@2A	1	50	6	350
	TS0531LD	DFN1608-2L	5	6	9.8V@5A	1	360	75	1250
	TS0731LD	DFN1608-2L	7	7.5	9.8V@5A	1	360	75	1250
	TS1031LD	DFN1608-2L	10	10.6	13.9V@5A	1	232	45	1250
	TS1231LD	DFN1608-2L	12	13.3	19V@5A	1	157	26	850
	TS1531LD	DFN1608-2L	15	17.9	24V@5A	1	121	22	850
	TS1831LD	DFN1608-2L	18	20.4	30.5V@5A	1	121	19	850
	TS2431LD	DFN1608-2L	24	26.7	40V@5A	1	121	16	850
	TS0551LD	DFN1610-2L	5	6	9.8V@5A	1	360	150	3000
	TS0751LD	DFN1610-2L	7	7.5	12.6V@5A	1	232	145	3000
	TS1051LD	DFN1610-2L	10	10.6	18.2V@5A	1	190	120	3000
	TS1251LD	DFN1610-2L	12	13.3	21.6V@5A	1	157	110	3000
	TS1551LD	DFN1610-2L	15	17.9	25.5V@5A	1	121	100	3000
	TS1851LD	DFN1610-2L	18	20.4	30.5V@5A	1	121	80	3000
	TS2451LD	DFN1610-2L	24	26.7	40V@5A	1	121	70	3000
	TS0311VD	DFN1608-2L	3.3	3.7	5V@2A	0.1	3	60	1000
	TS0511VD	DFN1608-2L	5	6	9.8V@5A	0.1	3	80	1100
	TS0811VD	DFN1608-2L	8	8.5	13.9V@5A	0.1	3	60	1100
	TS1211VD	DFN1608-2L	12	13.3	21.6V@5A	0.1	3	26	650
	TS1511VD	DFN1608-2L	15	16.7	24V@5A	0.1	3	22	650
	TS1811VD	DFN1608-2L	18	20.4	30.5V@5A	0.1	3	19	650
	TS2411VD	DFN1608-2L	24	26.7	40V@5A	0.1	3	16	650

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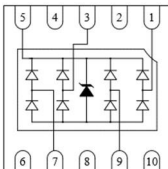
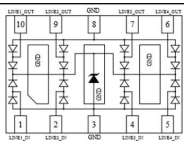
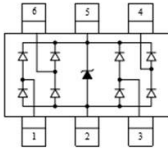
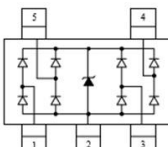
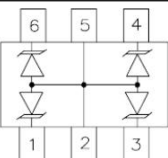
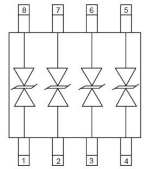
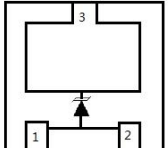


Configuration	Product	Package	VRWM (v)	VBR (v)	Vc(V) @IPP(A)	Ir (u A)	Cj (pF)	Ipp (A)	Ppk (W)
	TS0311VE	SOD323	3.3	3.7	5V@2A	0.1	3	60	1000
	TS0301VE	SOD323	3.3	3.7	7V@5A	0.1	3	25	350
	TS0511VE	SOD323	5	6	9.8V@5A	0.1	3	80	1100
	TS0811VE	SOD323	8	8.5	13.9V@5A	0.1	3	60	1100
	TS1211VE	SOD323	12	13.3	19V@5A	0.1	3	26	650
	TS1511VE	SOD323	15	16.7	24V@5A	0.1	3	22	650
	TS1811VE	SOD323	18	20.4	30.5V@5A	0.1	3	19	650
	TS2411VE	SOD323	24	26.7	40V@5A	0.1	3	16	650
	TS0301VE	SOD323	3.3	3.7	5V@2A	10	4	20	350
	TS0521VE	SOD323	5	6	9.8V@5A	0.1	1.5	20	350
	TS0821VE	SOD323	8	8.5	13.4V@5A	0.1	1.5	17	350
	TS1221VE	SOD323	12	13.3	19V@5A	0.1	1.5	11	350
	TS1521VE	SOD323	15	16.7	24V@5A	0.1	1.5	10	350
	TS1821VE	SOD323	18	20.4	31V@5A	0.1	1.5	8	350
	TS3301TE	SOD323	3.3	3.7	5V@2A	0.1	0.6	20	300
	TS0301TE	SOD323	3.3	4.0	7V@5A	0.1	0.6	25	350
	TS0501TE	SOD323	5	6.0	9.8V@5A	0.1	0.6	24	350
	TS0801TE	SOD323	8	9.2	13.4V@5A	0.1	0.6	20	350
	TS1201TE	SOD323	12	13.3	19V@5A	0.1	0.6	14	350
	TS1501TE	SOD323	15	16.7	24V@5A	0.1	0.6	10	350
	TS1801TE	SOD323	18	20.4	31V@5A	0.1	0.6	7	350
	TS2401TE	SOD323	24	26.7	43V@5A	0.1	0.6	6	350
	TS0501LE	SOD323	5	6	9.8V@5A	10	200	24	350
	TS0801LE	SOD323	8	9.2	13.9V@5A	1	150	20	350
	TS1201LE	SOD323	12	13.3	19V@5A	1	100	14	350
	TS1501LE	SOD323	15	16.7	24V@5A	1	75	10	350
	TS1801LE	SOD323	18	20.4	30.5V@5A	1	62	7	350
	TS2401LE	SOD323	24	26.7	40V@5A	1	50	6	350
	TS0431LE	SOD323F	4.35	5	8.2V@5A	1	420	80	1250
	TS0531LE	SOD323F	5	6	9.8V@5A	1	360	75	1250
	TS0731LE	SOD323F	7	7.5	11.6V@5A	1	232	75	1250
	TS1031LE	SOD323F	10	10.6	16.4V@5A	1	190	45	1250
	TS1231LE	SOD323F	12	13.3	20V@5A	1	157	26	850
	TS1531LE	SOD323F	15	16.7	25V@5A	1	121	22	850
	TS1831LE	SOD323F	18	20.4	30.5V@5A	1	121	19	850
	TS2431LE	SOD323F	24	26.7	40V@5A	1	121	16	850



Configuration	Product	Package	VRWM (v)	VBR (v)	Vc(V) @IPP(A)	IR (u A)	Cj (pF)	Ipp (A)	Ppk (W)
	TS0451LE	SOD323F	4.35	5	8.2V@5A	1	450	150	3000
	TS0551LE	SOD323F	5	6	9.8V@5A	1	360	150	3000
	TS0751LE	SOD323F	7	7.5	11.6V@5A	1	232	145	3000
	TS1051LE	SOD323F	10	10.6	16.4V@5A	1	190	120	3000
	TS1251LE	SOD323F	12	13.3	20V@5A	1	157	110	3000
	TS1551LE	SOD323F	15	16.7	25V@5A	1	121	100	3000
	TS1851LE	SOD323F	18	20.4	30.5V@5A	1	121	80	3000
	TS2451LE	SOD323F	24	26.7	40V@5A	1	121	70	3000
	TS2421LE	SOD323	24	26.7	40V@5A	1	121	150	3000
	TS3311PD	SOD523	3.3	3.9	5.5V@1A	0.1	6	20	300
	TS2502PN	DFN2010-8L	2.5	3.7	5V@2A	0.1	4.5	20	300
	TS2502TN	DFN2010-8L	2.5	3.7	6V@2A	0.1	0.7	20	300
	TS3302PN	DFN2010-8L	3.3	4.5	5V@2A	0.1	4.5	20	300
	TS0512LL	SOT23-3	5	6	12V@5A	1	68	24	350
	TS0812LL	SOT23-3	8	9.2	15V@5A	1	41	20	350
	TS1212LL	SOT23-3	12	13.3	20V@5A	1	28	14	350
	TS1512LL	SOT23-3	15	16	24V@5A	1	17	10	350
	TS1812LL	SOT23-3	18	19	30V@5A	1	13	7	350
	TS2412LL	SOT23-3	24	26.7	40V@5A	1	9	6	350
	TS0512LJ	SOT323	5	6	12V@5A	1	68	24	350
	TS0812LJ	SOT323	8	9.2	15V@5A	1	41	20	350
	TS1212LJ	SOT323	12	13.3	20V@5A	1	28	14	350
	TS1512LJ	SOT323	15	16	24V@5A	1	17	10	350
	TS1812LJ	SOT323	18	19	30V@5A	1	13	7	350
	TS2412LJ	SOT323	24	26.7	40V@5A	1	9	6	350
	TS0514PU	SOP-8	5	6	9V@1A	0.1	8	22	350
	TS2804PU	SOP-8	2.8	3.5	5V@2A	0.1	2.5	30	450
	TS2814VU	SOP-8	2.8	3.7	5V@2A	0.1	2	30	450

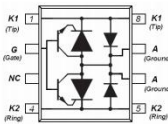
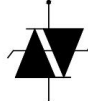


Configuration	Product	Package	VRWM (v)	VBR (v)	Vc(V) @IPP(A)	Ir (u A)	Cj (pF)	Ipp (A)	Ppk (W)
	TS2514PR	DFN2626-10 L	2.5	3.7	4.5V@1A	0.1	3.8	25	450
	TS3314PR	DFN2626-10 L	3.3	4.2	5.5V@1A	0.1	3.8	25	450
	TS2524PS	DFN3020-10 L	2.5	3.7	4.5V@1A	0.1	3.8	40	1000
	TS3324PS	DFN3020-10 L	3.3	4.5	5.5V@1A	0.1	3.8	40	1000
	TS0514PL	SOT23-6L	5	6	12V@1A	0.1	3.5	18	350
	TS3314PL	SOT23-5L	3.3	4.2	5.5V@1A	0.1	3.8	25	450
	TS0514LL	SOT23-6	5	6	12V@5A	1	68	25	350
	TS0814LL	SOT23-6	8	9.2	15V@5A	1	41	20	350
	TS1214LL	SOT23-6	12	13.3	20V@5A	1	28	15	350
	TS1514LL	SOT23-6	15	16.7	24V@5A	1	17	8	350
	TS1814LL	SOT23-6	18	20.4	30V@5A	1	13	7	350
	TS2414LL	SOT23-6	24	26.7	40V@5A	1	9	6	350
	TS0504LU	SOP-8	5	6	12V@5A	1	68	25	350
	TS0804LU	SOP-8	8	9.2	15V@5A	1	41	20	350
	TS1204LU	SOP-8	12	13.3	20V@5A	1	28	15	350
	TS1504LU	SOP-8	15	16.7	24V@5A	1	17	8	350
	TS1804LU	SOP-8	18	20.4	30V@5A	1	13	7	350
	TS2404LU	SOP-8	24	26.7	40V@5A	1	9	6	350
	TS0731LJ	DFN2020-3L	7	10.4	13V@5A	1	2000	220	7500
	TS1231LJ	DFN2020-3L	12	15.6	21.2V@5A	1	1500	200	7000
	TS1531LJ	DFN2020-3L	15	19.6	25.8V@5A	1	1000	120	4800

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Surge protection IC

Configuration	Product	Package	VRWM (v)	VBR (v)	VC(V) @IPP(A)	IR (u A)	Cj (pF)	Ipp (A)	Ppk (W)
	TS61089	SOP-8L	80~ 170V		V&IT=4V/2. 2A	5	25		IBO= 800 mA
	TS9110	SOP-8L	120		V&IT=4V/2. 2A	5	32		IQT= 5mA
	TSPD-TT8	SMB	400		V&IT=4V/2. 2A	5	35		IBO= 800 mA
	TSPD-TT9	DFN3.3*3.3- 2L	400		V&IT=4V/2. 2A	5	35		IBO= 800 mA
	SMAJxxA	SMA	5~ 440V	6.4~ 543V	9.2~710V	5		40	400
	SMBJxxA	SMB	5~ 440V	6.4~ 543V	9.2~710V	5		100	600
	SMCJxxA	SMC	5~ 440V	6.4~ 543V	9.2~710V	5		100	1500
	SMDJxxA	SMC	5~ 440V	6.4~ 543V	9.2~710V	5		300	5000
	PxxxxSC	SMB	6~ 750V		VBO=25~ 940V	5	25~ 100P F	400	IBO= 800 mA

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Schottky Barrier Rectifiers

Product	Package	I _O	V _R	I _{FSM}	V _F max(25 °C)		I _R (25 °C)		Remark
		(A)	(V)	(A)	(V)	@I _F (A)	(μ A)	@V _R (V)	
TT10U45S	TO-277	10	45	275	0.42	10	51	45	SBR10U45S
TT15S50S		15	50	275	0.42	15	51	50	SBR15S50
TT20S50S		20	50	350	0.5	20	500	50	SBR20S50
SS12	SMA (DO-214AC)	1.0	20	30	0.5	1.0	500	20	SS12
SS14		1.0	40	30	0.7	1.0	500	40	SS14
SS16		1.0	60	30	0.85	1.0	500	60	SS16
SS22		2.0	20	50	0.5	2.0	500	20	SS22
SS24		2.0	40	50	0.5	2.0	500	40	SS24
SS26		2.0	60	50	0.7	2.0	500	60	SS26
SS32		3.0	20	80	0.5	3.0	500	20	SS32
SS34		3.0	40	80	0.5	3.0	500	40	SS34
SS36		3.0	60	80	0.7	3.0	500	60	SS36
SL34		3.0	40	100	0.4	3.0	500	40	portable power N/A:adapters, common power supply(I _r >>)

Product	Package	I _O (A)	V _R (V)	I _{FSM} (A)	V _F max(25 °C)		I _R (25 °C)		Remark
					(V)	@ I _F (A)	(μ A)	@ V _R (V)	
TSR10F1 00D	TO220	10	100	200	0.69	10	10	100	
TSR10F1 00B	TO252								
TSR20F1 00D	TO220	20	100	235	0.79	10	10	100	
TSR30F1 00D	TO220	30	100	275	0.8	15	10	100	

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Low Dropout Regulator

Product	Character	Input Voltage	Output Voltage	Quiescent Iq	Output Current	Ripple Rejection	Drop voltage	Package
JY1103	High-speed low dropout	1.6V~6.0V	0.9V~5.0V	25uA	300mA	75dB (1KHz)	90mV (Vout=3.0V,Iload=100mA)	SOT23 SOT23-5L SOT23-6L
JY1105	High-speed low dropout	1.7V~6.0V	0.8V~5.0V	60uA	500mA	75dB (1KHz)	220mV (Vout=3.0V,Iload=300mA)	SOT23 SOT23-5L SOT23-6L
JY1117	Low dropout voltage	2.7V~12V	1.2V~5.0V	5mA	1A	60dB (120Hz)	Operates down to 1V	SOT223
JY1231	High-speed	≤6.8V	1.5V~5.0V	20uA	20uA	70dB (10KHz)	300mV (Vout=3.0V,Iload=100mA)	SOT23-5L
JY1401	Dual Channel High-speed	≤6.8V	1.3V~6.0V	25uA	>300mA	70dB (1KHz)	200mV (Vout=3.0V,Iload=100mA)	SOT23-6L
JY1402	Dual Channel High-speed	≤6.8V	1.3V~6.0V	25uA	>300mA	70dB (1KHz)	200mV (Vout=3.0V,Iload=100mA)	SOT23-6L

Product	Character	Input Voltage	Output Voltage	Quiescent Iq	Output Current	Ripple Rejection	Drop voltage	Package
JY1118	Low dropout voltage	≤7V	<7V	90uA	800mA	50dB (1KHz)	300mV (Vout=3.3V, Io=800mA)	SOT-89 SOT-223

MOSFET Selector Worksheet

Part No.	Type	Vds	Vgs	Vgs(th)	Id@25°C	Rds(on)(mΩ) @ Vgs			Package
		(v)	(±v)	(v)	(A)	10V	2.5V	4.5V	
JY2301	P	-20	12	-0.7	3		82	59	SOT-23
JY2302	N	20	12	0.85	2.9		32	23	SOT-23
JY2305	P	-20	12	-0.7	-4.1		45	33	SOT-23
JY2312	N	20	12	0.7	5		19	14	SOT-23
JY3401	P	-30	12	-0.9	-4.2	39	60	45	SOT-23
JY3415E	P	-20	8	-1	-4		54	46	SOT-23
JY3400	N	30	12	0.9	5.8	20	32	24	SOT-23-3L
JY3404	N	30	12	1.6	5.8	19		28	SOT-23-3L
JY3407	P	-30	12	-1.6	-4.3	36		53	SOT-23-3L
JY4953	P	-30	20	-1.6	-5.1	36		53	SOP-8

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DC-DC BUCK

Product	Character	Maximum Efficiency	Operating voltage	Iq	Output voltage	Output Versions	Package
TD8001	1.5MHz, 1A Synchronous	96%	2.5V~6.5V	300uA	0.6V~0.9Vin	Adj	SOT23-5L
TD8002	1MHz, 2A Synchronous	96%	2.5V~6.5V	80uA	0.6V~0.9Vin	Adj	SOT23-5L
TD8011	1.5MHz, 1A Synchronous	96%	2.5V~8V	300uA	0.6V~0.9Vin	Adj	SOT23-5L
TD8012	1MHz, 2A Synchronous	96%	2.5V~8V	80uA	0.6V~0.9Vin	Adj	SOT23-5L
TD8013	700KHz, 3A Synchronous	95%	2.5V~8V	300uA	0.6V~0.9Vin	Adj	SOT23-5L
TD8102	600KHz, 2A Synchronous	96%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	SOT23-6L
TD8112	600KHz, 2A Synchronous	96%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	SOT23-6L
TD8122	450KHz, 2A Synchronous	95%	4.5V~18V	300uA	0.925V~0.9Vin	Adj	TSOT23-6
TD8103	600KHz, 3A Synchronous	95%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	TSOT23-6L
TD8113	600KHz, 3A Synchronous	95%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	SOT23-6L
TD8123	600KHz, 3A Synchronous	95%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	SOT563
TD8105	340KHz, 5A Synchronous	95%	4.5V~18V	300uA	0.6V~0.9Vin	Adj	TSOT23-6
TD8202	340KHz, 2A Synchronous	95%	4.5V~27V	300uA	0.925V~0.9Vin	Adj	SOP8
TD8203	340KHz, 3A Synchronous	95%	4.5V~27V	300uA	0.925V~0.9Vin	Adj	ESOP8
TD8302	300KHz, 2A Synchronous	95%	4.5V~30V	300uA	0.9V~0.9Vin	Adj	ESOP8
TD8303	300KHz, 3A Synchronous	95%	4.5V~30V	300uA	0.9V~0.9Vin	Adj	ESOP8
TD8313	300KHz, 3.5A Synchronous	95%	4.5V~30V	300uA	0.9V~0.9Vin	Adj	TSOT23-8



Battery Charger

Product	Character	Operating Voltage	Output voltage	Iopr	Istdn	Output current	Package
BP8261	Line constant Current/voltage	1.5V~5.5V	4.2V	3uA	0.1uA	2.8A	SOT23-6

Current Limited switch/Load switch

Product	Character	Supply Voltage	Rated current	Current Limit (typical)	Iq	Iq in shutdown	Rdson	Package
TP6001	Constant Current	2.4V~5.5V	0.6A	0.72A~0.97A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6002	Constant Current	2.4V~5.5V	1.0A	1.27A~1.73A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6003	Constant Current	2.4V~5.5V	1.5A	1.78A~2.42A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6004	Constant Current	2.4V~5.5V	2.0A	2.5A~3.3A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6005	Constant Current	2.4V~5.5V	2.5A	3.35A~4.4A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6006	Constant Current	2.4V~5.5V	3.0A	4.45A~5.9A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6021	Constant Current With reverse current blocking	2.4V~5.5V	0.6A	0.72A~0.97A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6022	Constant Current With reverse current blocking	2.4V~5.5V	1.0A	1.27A~1.73A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6023	Constant Current With reverse current blocking	2.4V~5.5V	1.5A	1.78A~2.42A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6024	Constant Current With reverse current blocking	2.4V~5.5V	2.0A	2.5A~3.3A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6025	Constant Current With reverse current blocking	2.4V~5.5V	2.5A	3.35A~4.4A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6026	Constant Current With reverse current blocking	2.4V~5.5V	3.0A	4.45A~5.9A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6013 Series	Adjustable current	2.4V~5.5V	0.6A~3A	0.85A~5A	20uA	1uA	90mΩ	SOT23-5 SOT23-6
TP6033 Series	Adjustable Current With reverse current blocking	2.4V~5.5V	0.6A~3A	0.85A~5A	20uA	1uA	90mΩ	SOT23-5 SOT23-6

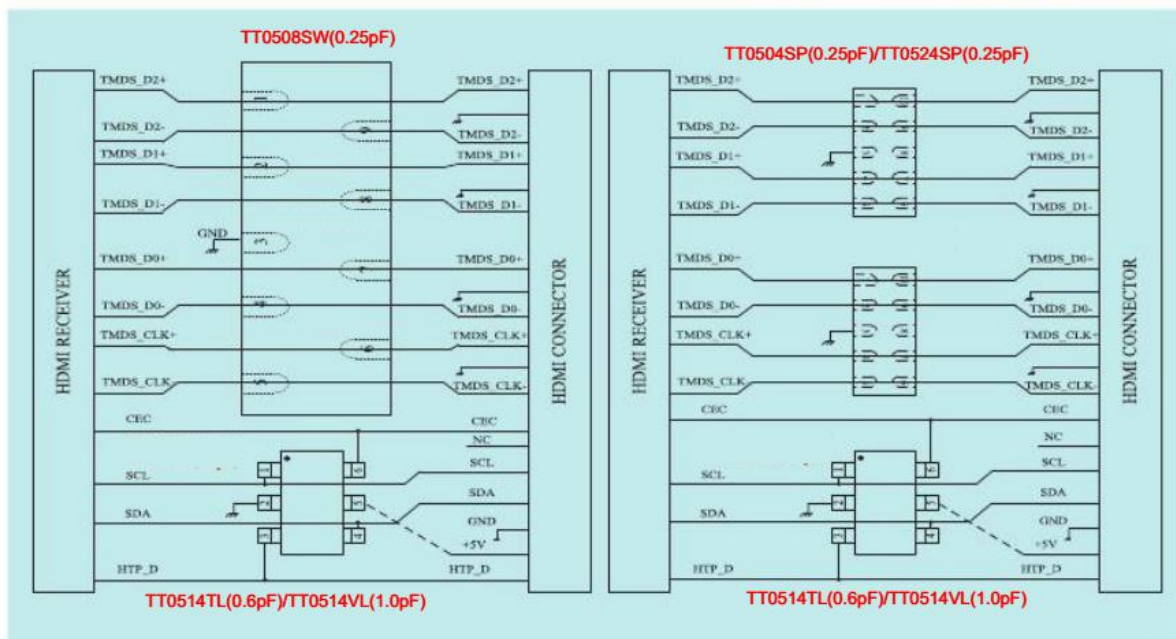
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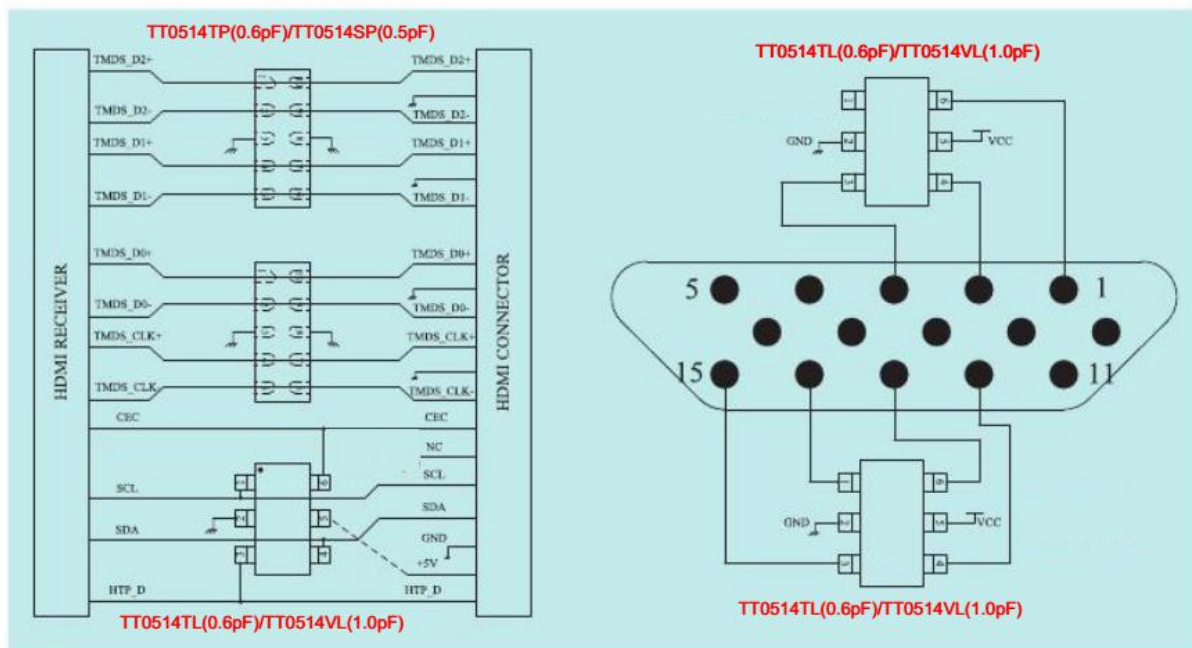
Application Introduction

HDMI and VGA Port Protection



Layout Top View for HDMI 2.0 Interface with TT0508SW&TT0514TL/TT0514VL

Layout Top View for HDMI 2.0 Interface with TT0504SP/TT0524SP & TT0514TL/TT0514VL



Layout TOP View for HDMI1.2/1.3/1.4 Interface with TT0514TP(TT0514SP)&TT0514TL(TT0514VL)

Layout Top View for VGA Interface with TT0514TL or TT0514VL

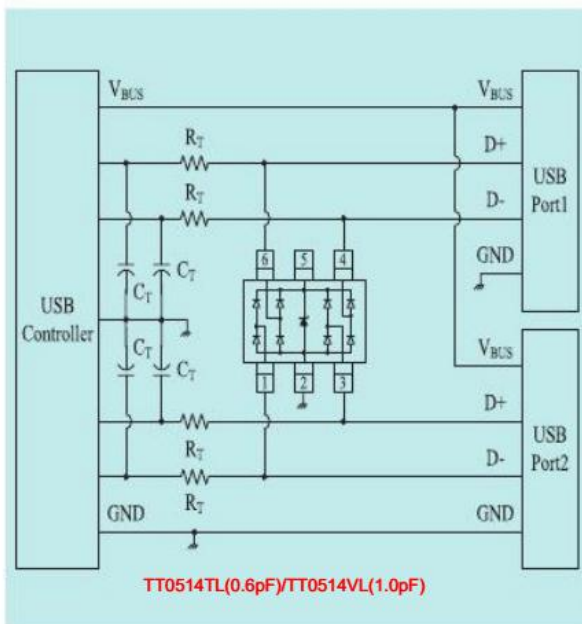
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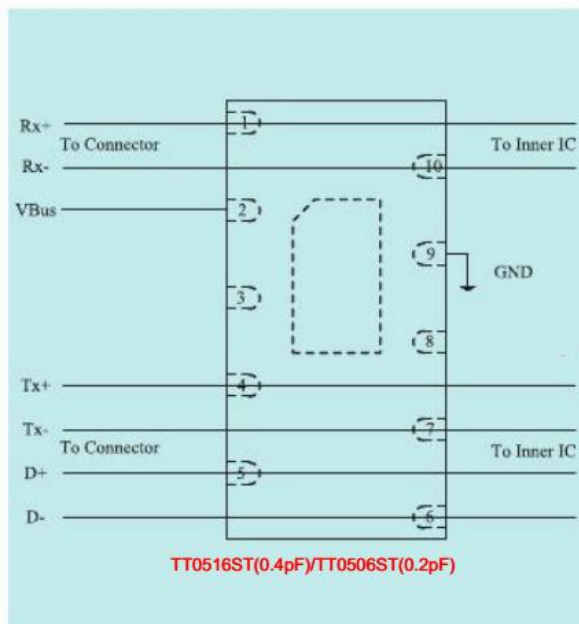


Application Introduction

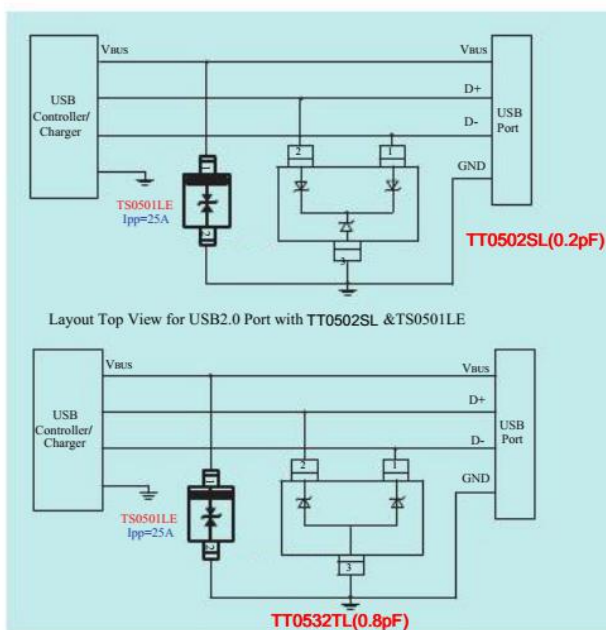
USB Port Protection



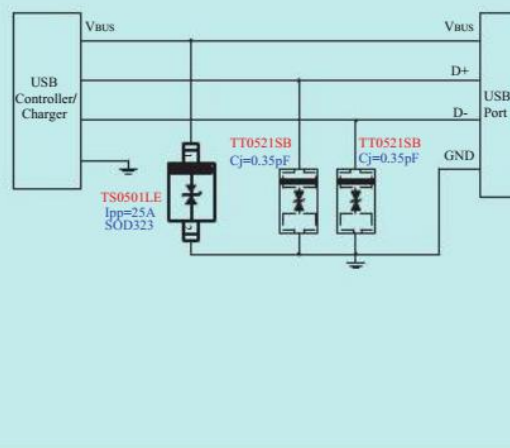
Layout Top View for Dual USB 2.0 Ports with TT0514TL or TT0514VL



Layout Top View for USB 3.0/3.1 port with TT0516ST&TT0506ST



Layout Top View for USB2.0 Port with TT0502SL & TS0501LE



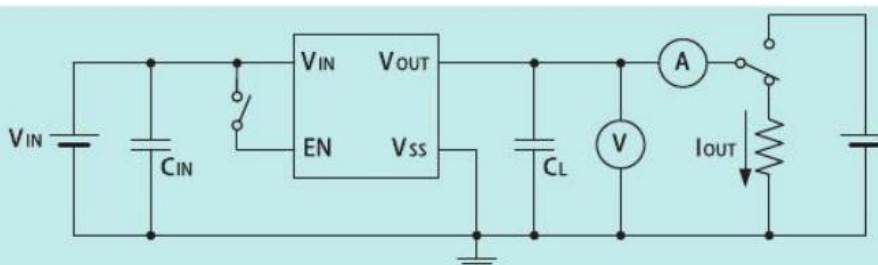
Layout Top View for USB2.0 Port with TT0532TL & TS0501LE

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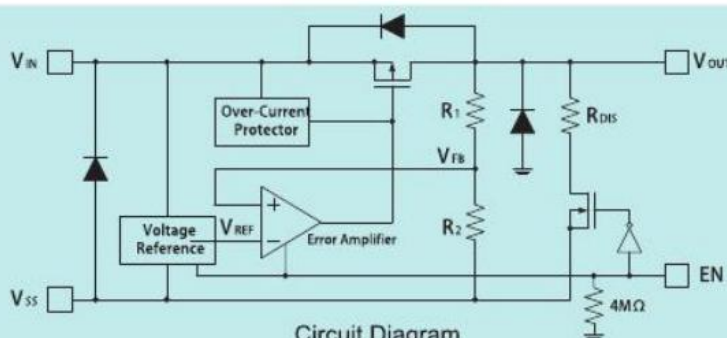
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High Speed, Low dropout, $\pm 1\%$ High output accuracy
With On / Off circuit CMOS Voltage Regulator



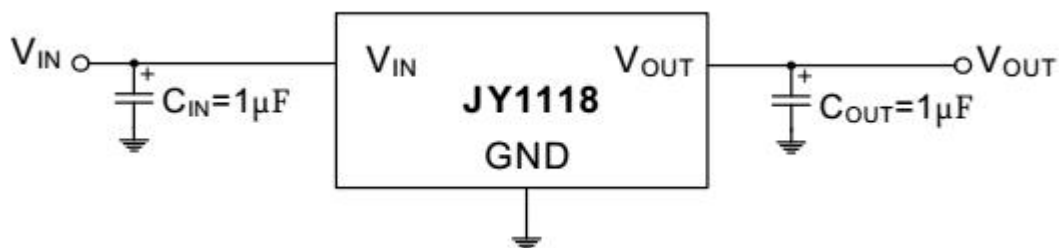
Typical Application circuitry



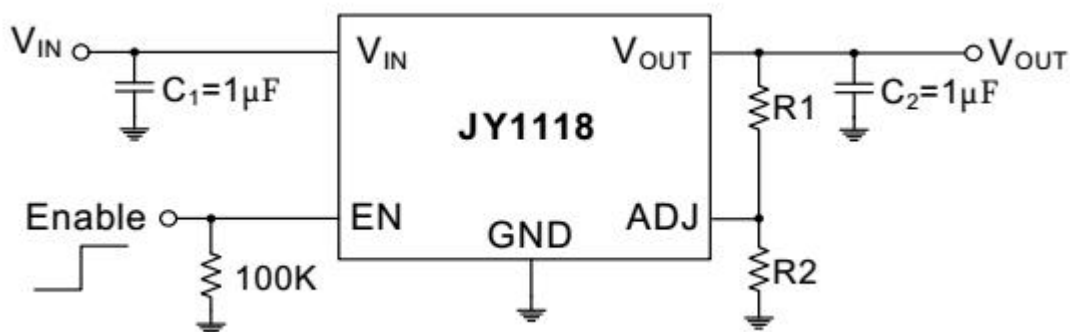
Circuit Diagram

JY1103 Series

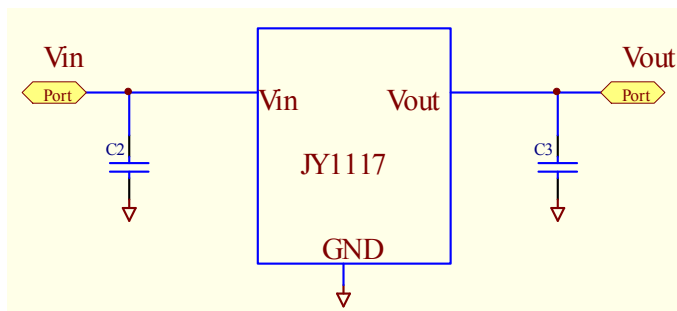
Product	Output Voltage	Input Voltage	Output Current	Dropout voltage	Package	Ripple Rejection
JY1103-08	0.8V	1.6V~6.0V	300mA	90mV ($V_{out}=3.0V$ $I_{out}=100mA$)	SOT23 SOT23-5L SOT23-6L	75dB (1KHz)
JY1103-10	1.0V					
JY1103-12	1.2V					
JY1103-15	1.5V					
JY1103-18	1.8V					
JY1103-20	2.0V					
JY1103-25	2.5V					
JY1103-28	2.8V					
JY1103-30	3.0V					
JY1103-33	3.3V					
JY1103-39	3.9V					



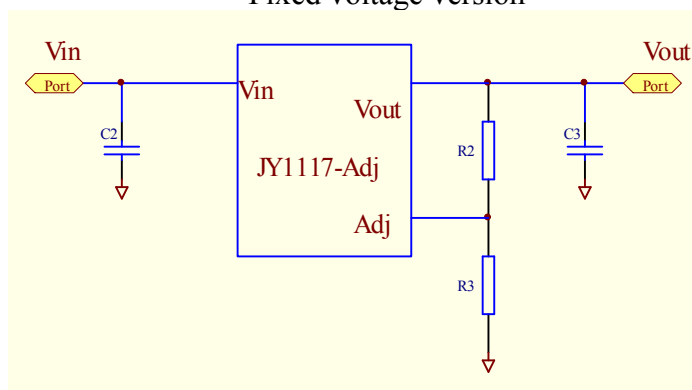
Fixed voltage version



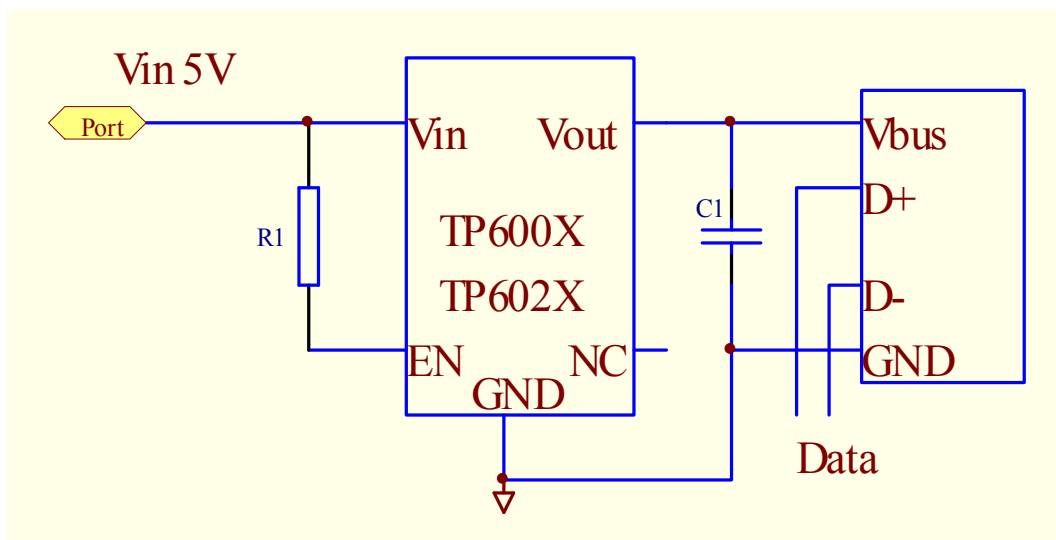
Adjustable voltage version



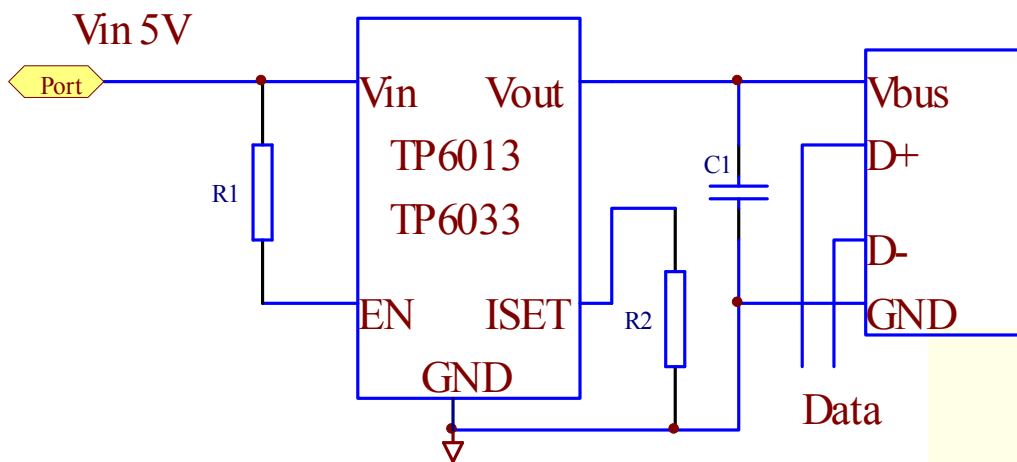
Fixed voltage version



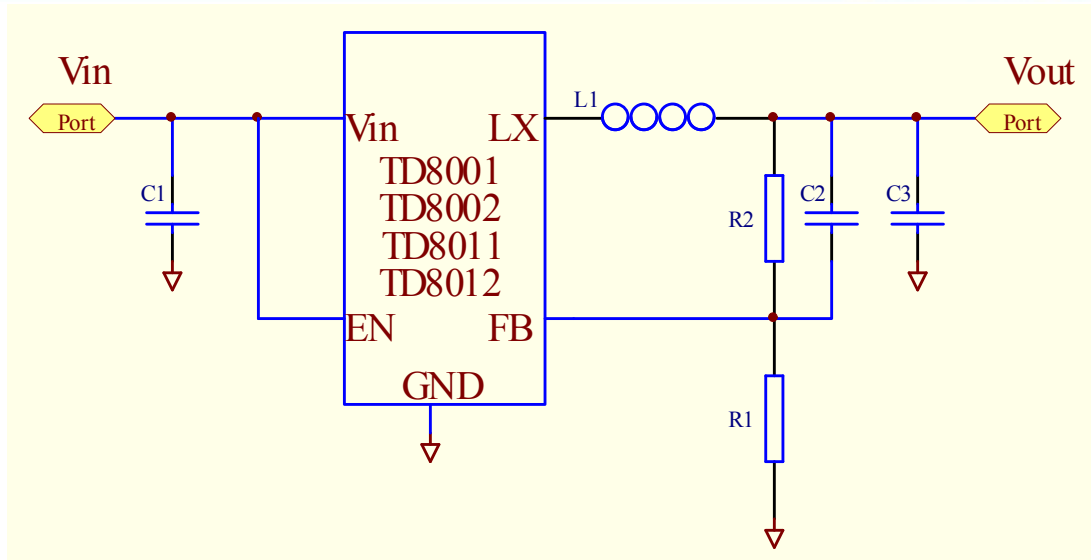
Adjustable voltage version



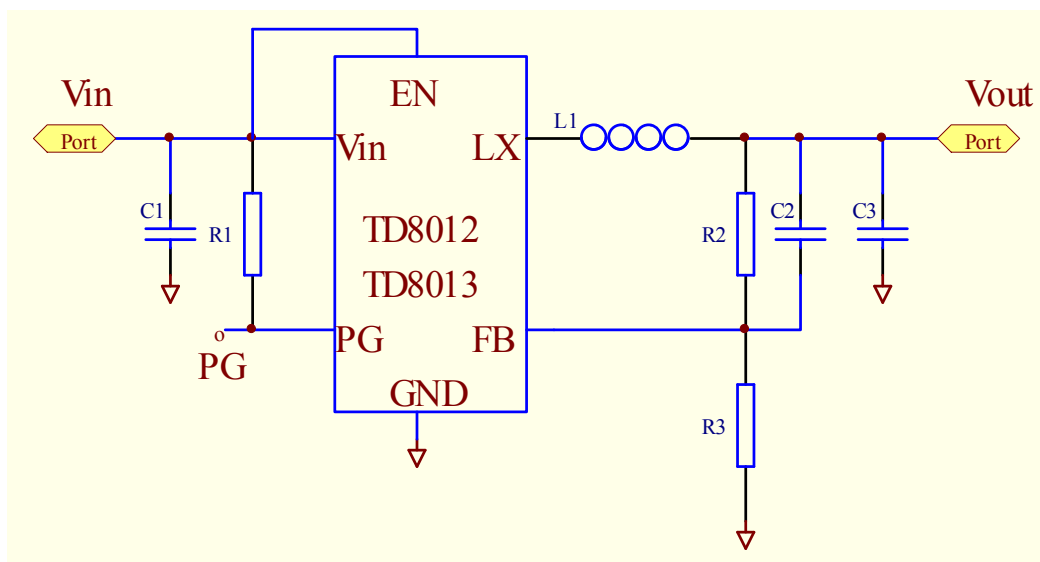
Typical application circuit



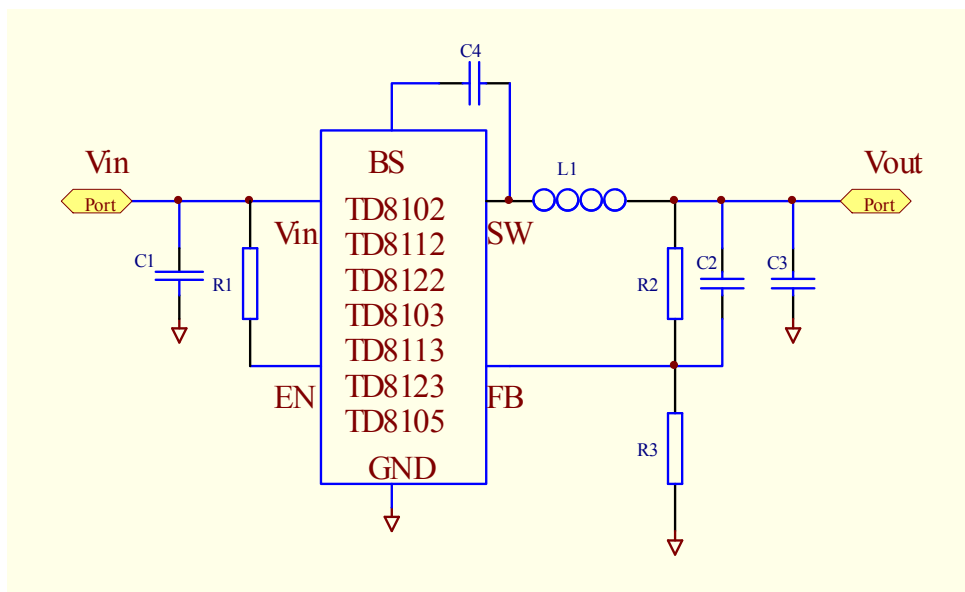
Typical application circuit



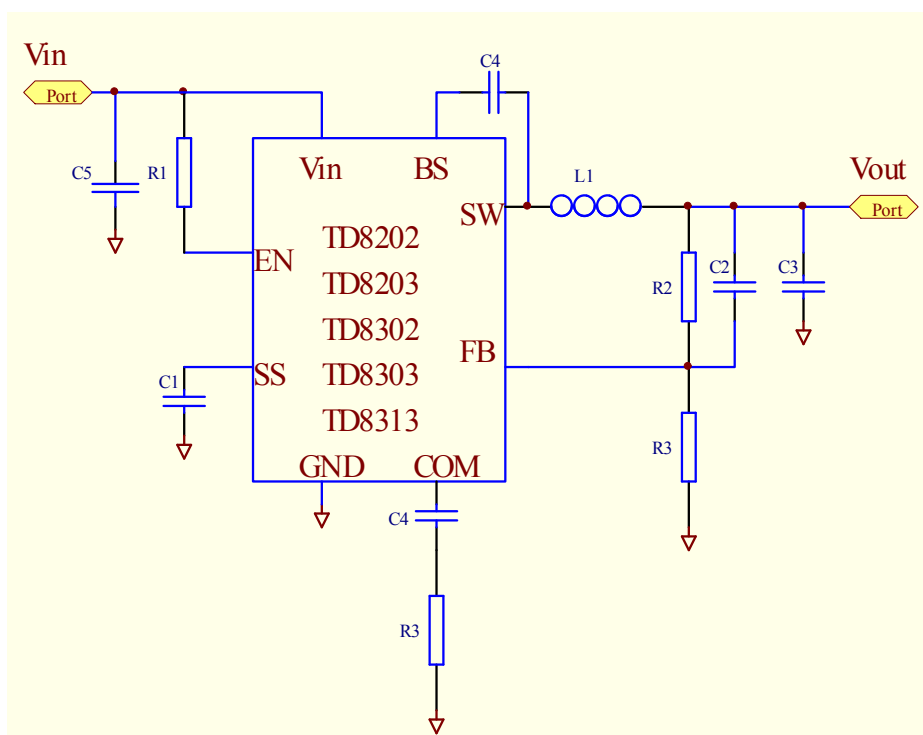
Typical application circuit(SOT23-5)



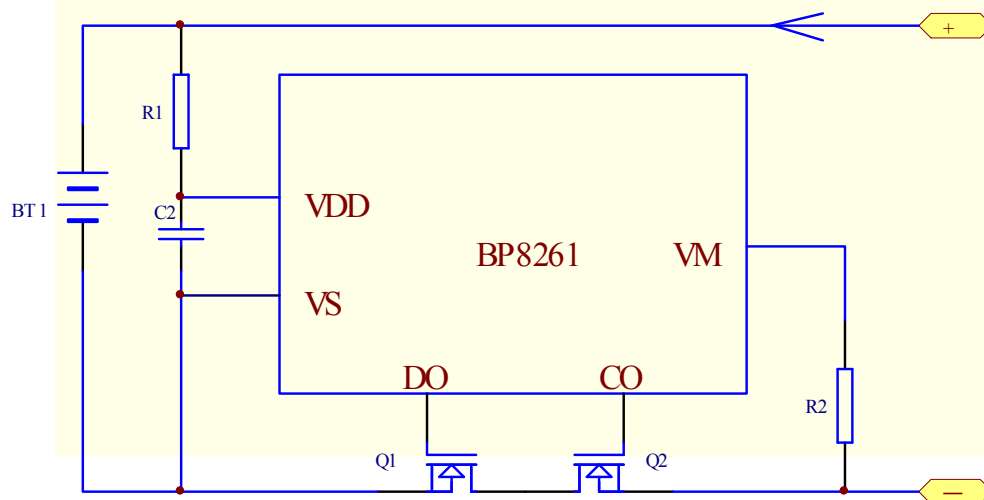
Typical application circuit(SOT23-6)



Typical application circuit



Typical application circuit



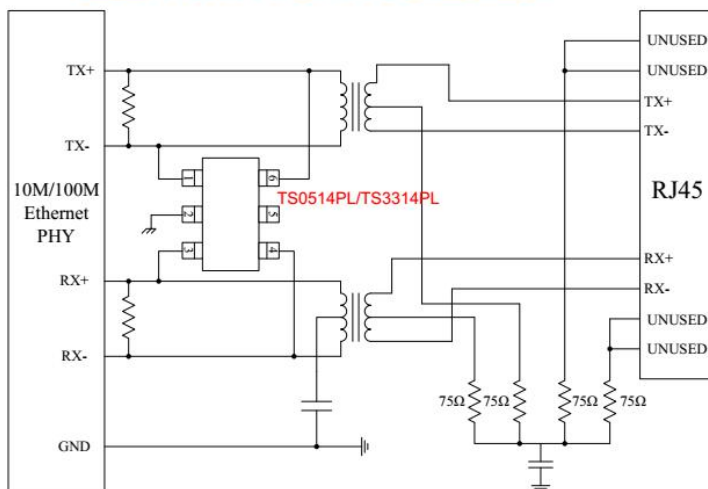
Typical application circuit



TITAN MICRO

防雷方案:差模防雷(1)

ESD Protection for Ethernet

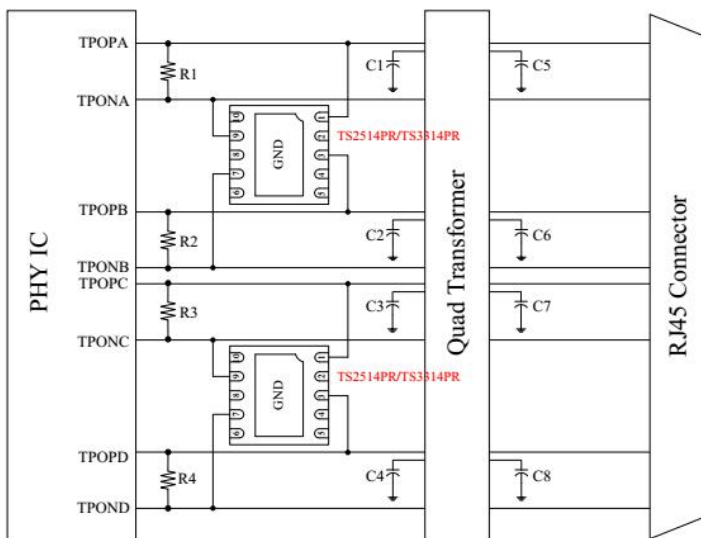


- TS0514PL: SOT23-6L, 5V, 3.5pF (Typical), Ipp:18A
TS3314PL: SOT23-5L, 3.3V, 3.8pF (Typical), Ipp:25A

TITAN MICRO

防雷方案:差模防雷 (2)

Surge Protection for Gigabit Ethernet (1)



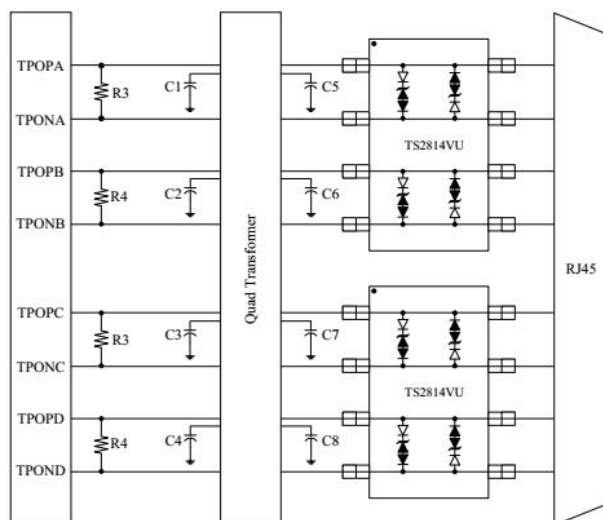
- TS2514PR/TS3314PR :DFN2626-10L, 2 line pairs, Cj:3.8pF (Typical), Ipp:25A



TITAN MICRO

防雷方案:差模防雷(3)

Surge Protection for Gigabit Ethernet (2)

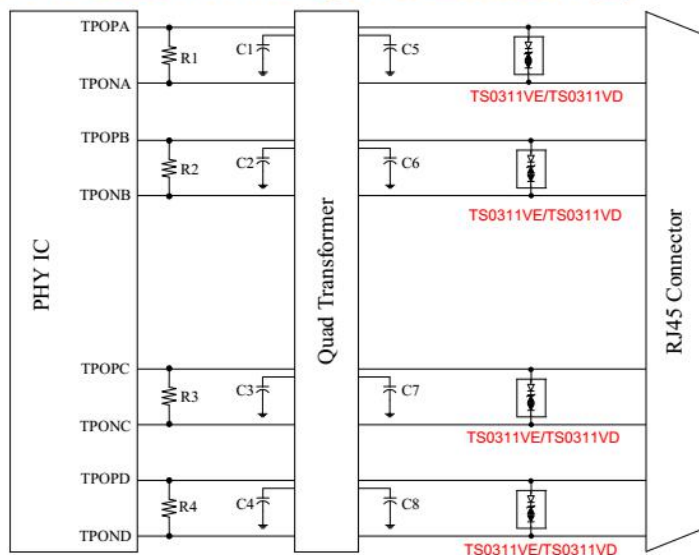


- TS2814VU :SOP-8,2 line pairs,Cj:2.0pF(Typical) ,Ipp:30A

TITAN MICRO

防雷方案:差模防雷(4)

Surge Protection for Gigabit Ethernet (3)



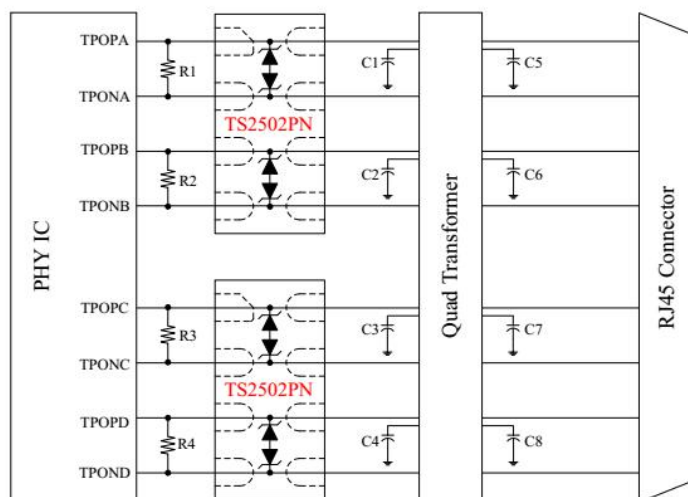
TS0311VE/TS0311VD:SOD323/DFN1608-2L,2 line pairs, 3.3V,3pF(Typical),Ipp:60A



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防雷方案:差模防雷 (5)

Surge Protection for Gigabit Ethernet (4)

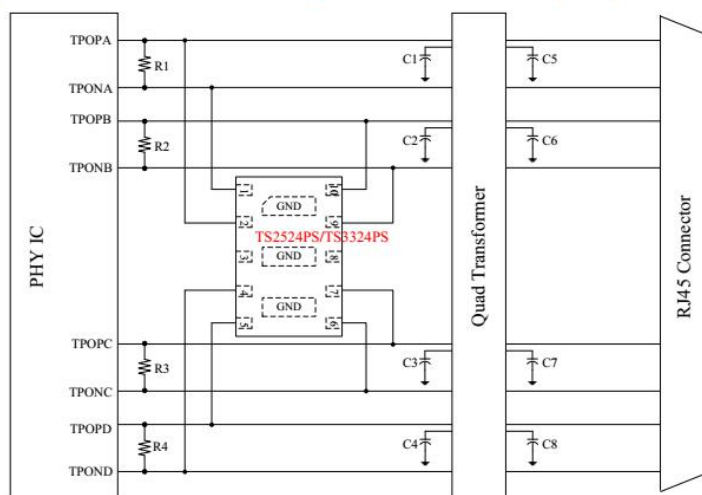


- TS2502PN :DFN2010-8L,2 line pairs ,Cj:4.5pF(Typical),Ipp:20A

TITAN MICRO

防雷方案:差模防雷(6)

Surge Protection for Gigabit Ethernet (5.1)



- TS2524PS/TS3324PS :DFN3020-10L,4 line pairs ,Cj:3.8pF ,Ipp:40A

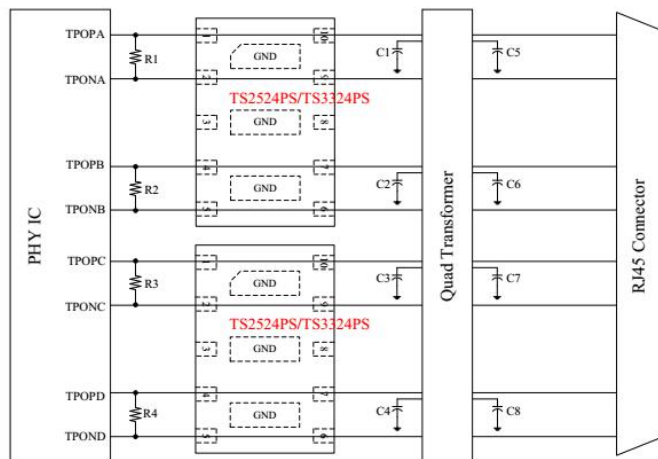
service@jy-electronics.com.cn



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防雷方案:差模防雷(7)

Surge Protection for Gigabit Ethernet (5.2)



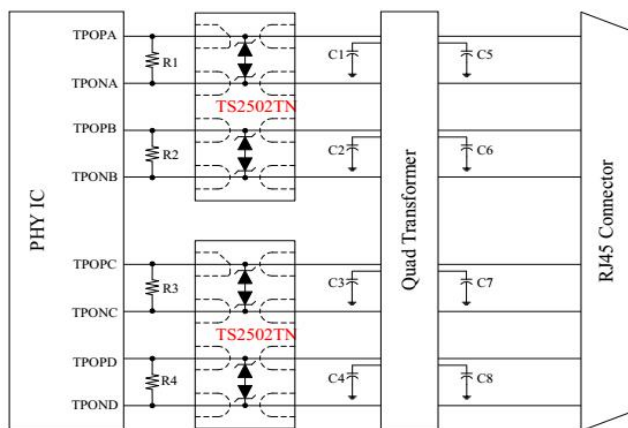
- TS2524PS/TS3324PS:DFN3020-10L,2 line pairs for ultra-high level surge protection,
Cj:3.8pF ,Ipp:40A

8

TITAN MICRO

防雷方案:差模防雷(8)

Surge Protection for 10GBase-T



- TS2502TN :DFN2010-8L,2 line pairs,Cj:0.7pF(Typical),
Ipp:20A



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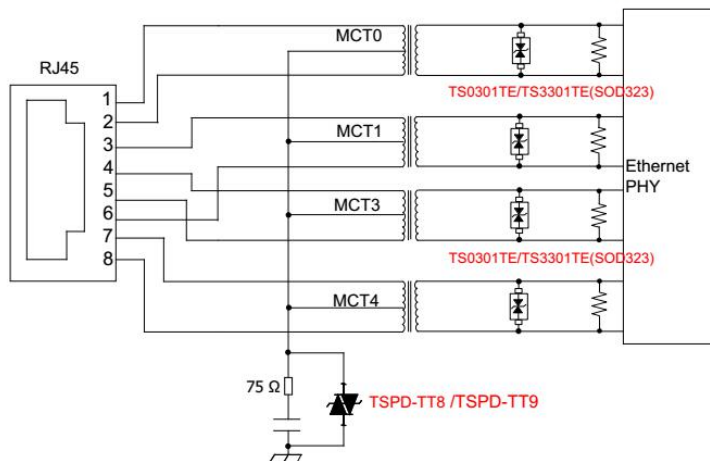
防雷方案:差模+共模防雷

以太网防护推荐防雷方案 (一)

防护等级:

差模 10/700us 2KV

共模 10/700us 6KV



Ethernet 部分的防护, 前端采用 TSPD-TT8 /TSPD-TT9 产品, 后级采用 TS0301TE/TT3301TE 产品。

注:

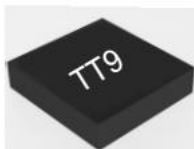
- 1、此方案是最高效 6KV 共模、2KV 差模 防护方案, 采用 TSPD 系列有超高的共模防护稳定性, 超越一般产品; 采用 TSxx01TE 系列 TVS, 可以将 Transformer 初级线圈的差模电压从数千伏钳位到 ~10V, 确保 PHY IC 不被打坏。
- 2、TSPD-TT8/TSPD-TT9 的连接两端为变压器中心抽头和防护地。
- 3、75R 电阻采用 0805 尺寸, 保证启动前的耐受。



TSPD-TT8

Feature:

- Bidirectional protection
- Protects one I/O lines
- IEC 61000-4-5 6KV
- Package: SMB



TSPD-TT9

Feature:

- Bidirectional protection
- Protects one I/O lines
- IEC 61000-4-5 6KV
- Package: DFN3.3*3.3-2L



TS0301TE/TS3301TE

Feature:

- Bidirectional protection
- Protects one I/O lines
- IEC 61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- Package: SOD-323