



Prisemi Profile

2018

About Company

Products

Marketing

Partners

About Company _ Company Establishment

Established: Nov, 2009

Headquarters: Shanghai

Office Site: Shanghai

Shenzhen

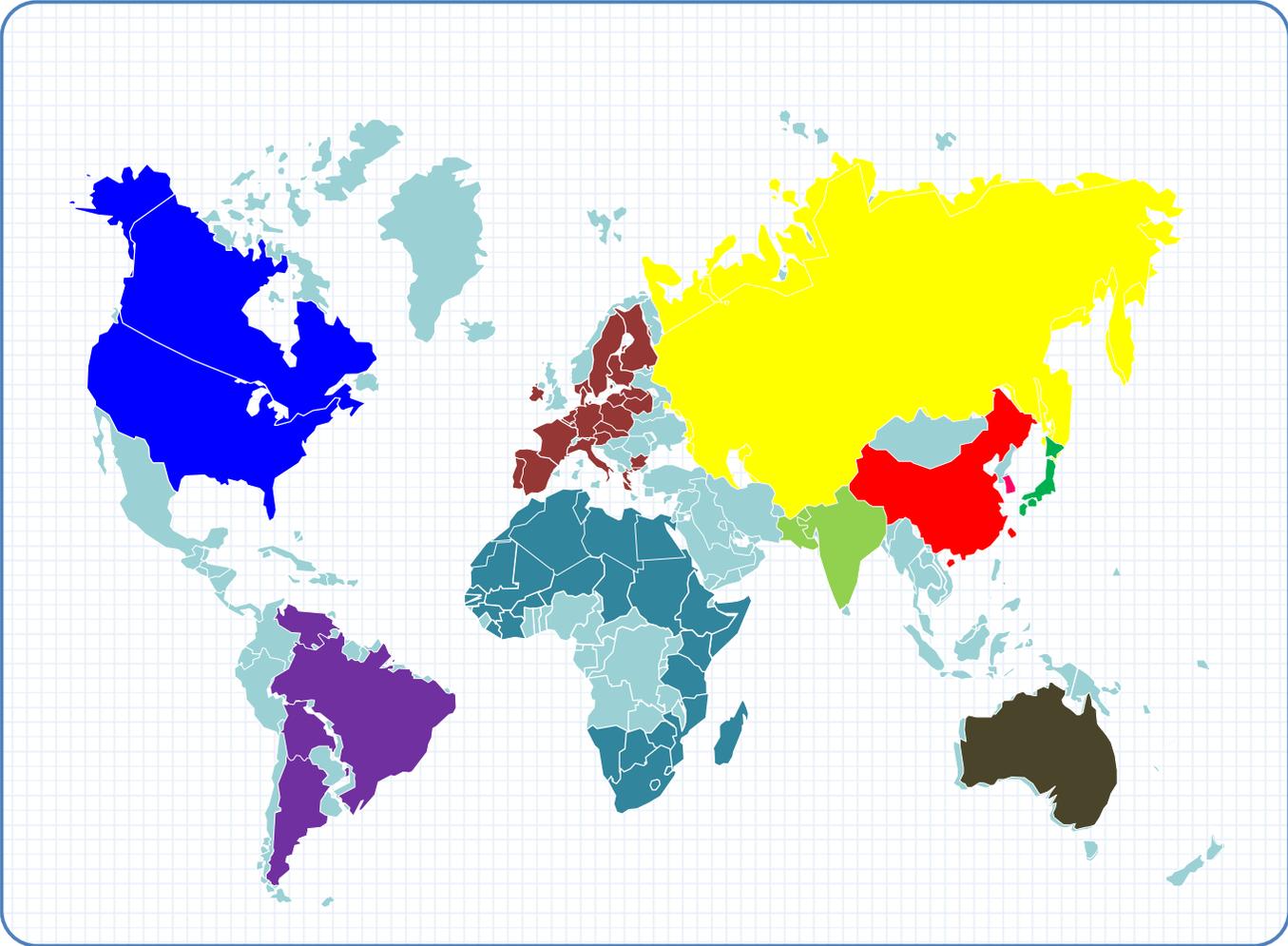
Beijing

Xi'an

Hangzhou



About Company _ Market Coverage



China

North America

South America

Korea

Japan

India

Europe

Russia &
Central Asia

Africa

Australia

About Company _ Enterprise Certification



High-tech Enterprise Certification



Integrated Circuit Design Enterprise Certification



Shanghai Science and Technology Little Giant Enterprise Certification



Research & Development Enterprise of Pudong District Certification



Major Integrated Circuit Design of Shanghai Planning Distribution Enterprise Certification



Quality Management System Certification



OHSAS 18001:2007



ISO14001:2004



ISO9001:2008

About Company _ Enterprise Patents



With 45 Patents

证 书

项目编号: 201112610 项目等级: B 技术贡献系数: 0.86
 项目名称: TVS 管
 项目单位: 上海芯导电子科技有限公司

该项目经审定, 认定为上海市高新技术成果转化项目,
 有效期至 2016 年 12 月。

上海市高新技术成果转化项目认定办公室
 2011 年 12 月 26 日

证 书

项目编号: 201203227 项目等级: B 技术贡献系数: 0.86
 项目名称: 三极管 (PT236T30E2, PT236T30E2H, PPT89T30VSAE2M)
 项目单位: 上海芯导电子科技有限公司

该项目经审定, 认定为上海市高新技术成果转化项目,
 有效期至 2017 年 4 月。

上海市高新技术成果转化项目认定办公室
 2012 年 4 月 19 日

证 书

项目编号: 201203228 项目等级: B 技术贡献系数: 0.86
 项目名称: 稳压管 (PZ3D4V2H, PZ5D4V2H)
 项目单位: 上海芯导电子科技有限公司

该项目经审定, 认定为上海市高新技术成果转化项目,
 有效期至 2017 年 4 月。

上海市高新技术成果转化项目认定办公室
 2012 年 4 月 19 日



证 书

项目编号: 201305313 项目等级: B 技术贡献系数: 0.86
 项目名称: 大功率低功耗 MOSFET
 项目单位: 上海芯导电子科技有限公司

该项目经审定, 认定为上海市高新技术成果转化项目,
 有效期至 2018 年 7 月。

上海市高新技术成果转化项目认定办公室
 2013 年 7 月 4 日

About Company _ Service

Supply Service Projects

Superior Products/Superior Technology/Superior Service

➤ One-stop Technology Service Platform

Our Service:

Products

Products Training

Solutions

Solutions Training

Verification Testing

Solution problem

PCB Checking

EMC & EOS Test:

➤ Surge testing:

1.2/50us&8/20us(6KV)

10/700us (6KV)

10/1000us(1KV)

8/20us(6KV)

8/20us(0-600V)

➤ ESD testing:

1/30ns

Human model (30KV)

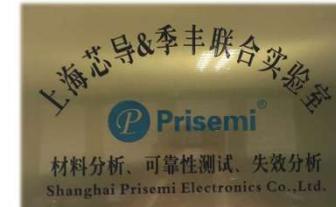
➤ EFT testing:

5/50ns (4KV)

About Company _ Test Environment



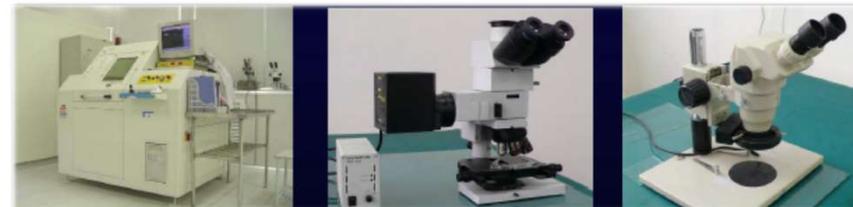
Prisemi & GIGA Joint Laboratory



Overvoltage Protection Testing
ESD, Surge, Lighting Testing



Failure Analysis



Reliability Testing



About Company

Products

Marketing

Partners



Protection Devices

TVS

- SMA;SMB;SMC Series
- P4KE;P6KE;1.5KE Series
- PTVSHC1DF/1SF/1TF Series
- PTVSHC3D Series
- PTVSHC2EN Series
- PTVSHC3N Series

ESD (ESD Array)

- PESDHC/NC Series
- PESDLC/WC/UC Series
- PESDALC Series
- PESDAWC Series

TSS(POV)

- POV0080SA/B/C
- PELB5VB1/5VB003

PPV

- PPV61089A/B Series
- PPV120S8

Discrete Devices

MOSFET

- Low Voltage MOSFET
 - High Voltage MOSFET
- ### Transistor
- PP/NT3FD Series
 - PDTCA Series
(Digital Transistor)

JFET

Diode

- PIN / Zener / Schottky
- Switch diode

Bridge

- TBS/ABS Series
- MBS/MBF Series

RF LDMOS

Products _ Discrete Devices _ Package Type A

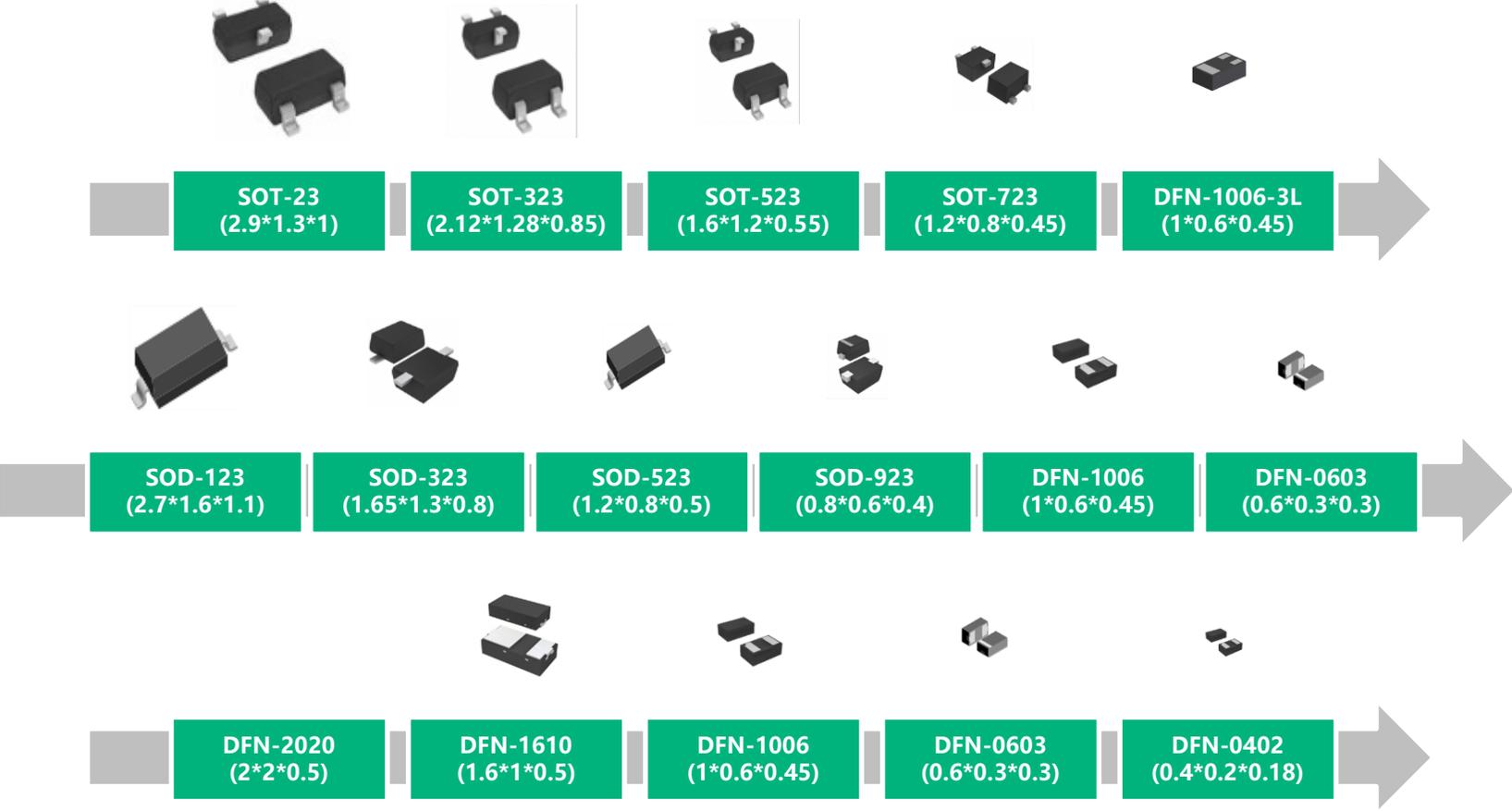
DFN Series	Package	SOD Series	Package	SOT Series	Package
DFN-0603-2L		SOD-923		SOT-923	
DFN-1006-2L		SOD-723		SOT-723	
DFN-1006-3L		SOD-523		SOT-523	
DFN-2020		SOD-323		SOT-363	
DFN-1610		SOD-123		SOT-89	
PDFN-3020		SOD-123FL		SOT-23	
PDFN-3030		SOD-123FL(薄) 厚度<0.98mm		SOT-23-6L	

Products _ Discrete Devices _ Package Type B



Package		Package		Package	
SMA		SMAF		MBS	
SMB		SMBF		MBF	
SMC		TSSOP-8		ABS	
SMD		TO-251		TO-252	

Products _ Discrete Devices _ Package Roadmap



Ultra Small Package Roadmap

Products _ EOS Selection For Vbat



EOS Selection For Vbat							
Vrwm	Part No.	Package	Key Parameters				Vt(8/20 us)
			Vbr (V)	Ir (uA)	Vc (V)	Ipp (A)	
4.5V	PESDHC2FD4V5B	DFN1006-2L	4.7	1	12	30	60
	PESDHC2FD4V5BH	DFN1006-2L	4.7	1	14	36	80
	PTVSHC2EN4V5U	DFN1610-2L	5~7	5	13	100	220
	PTVSHC2EN4V5B	DFN1610-2L	4.6~6.1	2	10	130	270
	PTVSHC3D4V5U	SOD-323	5~7	5	13.5	100	220
	PTVSHC3D4V5B	SOD-323	4.6	2	21	130	280
	PTVSHC3D4V5BH	SOD-323	4.6	2	17.5	160	330
	PTVSHC3N4V5B	DFN2020-3L	4.6	1	12	240	500
4.8V	PTVSHC3N4V8U	DFN2020-3L	5~7	6	14.5	220	450
5V	PESDHC2FD5VBH	DFN1006-2L	4.6~6.5	1	9.5	33	70
	PTVSHC2EN5VU	DFN1610-2L	6~8	1	12.5	130	280
	PTVSHC2EN5VB	DFN1610-2L	4.6~6.5	1	11	140	300
	PTVSHC3D5VU	SOD-323	6~8	1	14.5	100	220
	PTVSHC3N5VU	DFN2020-3L	5.8~8	3	18.5	300	600

Products _ EOS Selection For Vbus



EOS Selection For Vbus							
Vrwm	Part No.	Package	Key Parameters				Vt(8/20 us)
			Vbr	Ir	Vc@Ipp	Ipp	
7V	PTVSHC1DF7VB	SOD123FL	7.8	200	20	135	300
	PTVSHC1DF7VBH	SOD123FL	7.8	200	19	185	380
	PTVSHC3N7VU	DFN2020-3L	8~10	1	15	200	420
12V	PTVSHC1TF12VU	SOD123FL (薄)	13~15	1	27	190	400
	PTVSHC1TF12VUH	SOD123FL (薄)	13~15	1	29	220	450
	PTVSHC3N12VU	DFN2020-3L	14.5	1	25	185	400
15V	PTVSHC1TF15VU	SOD123FL (薄)	16.5~19	1	30	250	500
	PTVSHC3N15VU	DFN2020-3L	16~19	1	29	130	300
	PTVSHC3N15VUH	DFN2020-3L	16~19	1	33.5	170	380
18V	PTVSHC1TF18VB	SOD123FL (薄)	20~23	1	31	220	450
	PTVSHC3N18VU	DFN2020-3L	19	1	29	140	300
24V	PTVSHC1TF24VU	SOD123FL (薄)	26~30	1	32	180	400
	PTVSHC1SF24VBH	SOD123FL (薄)	25~29	1	30	185	420
	PTVSHC1DF24VBH	SOD123FL	25~29	1	29	165	420
	PTVSHC1TF24VB	SOD123FL (薄)	26~30	1	31	160	350
	PTVSHC1TF24VBH	SOD123FL (薄)	26~30	1	35	185	420
	PTVSHC3N24VU	DFN2020-3L	25~30	1	51	100	220
	PTVSHC3N24VUP	DFN2020-3L	25~29	1	34	180	400

Products _ IC



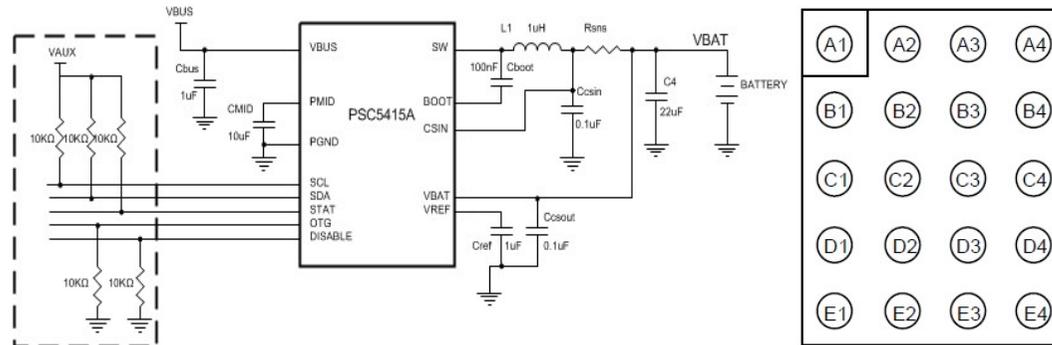
Products _ Charge IC _ PSC54xx Series



CSP封装开关充电IC

技术特点:

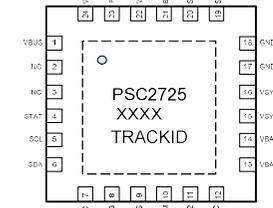
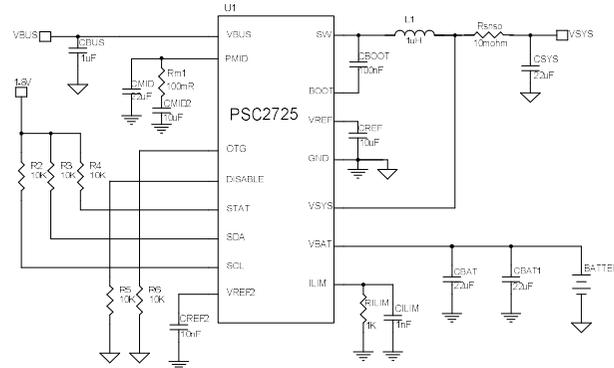
- 兼容主流CSP充电芯片
- 四段式充电流程: 激活(30mA)-涓流-恒流-恒压
- 充电模式效率最高>93%
- 支持OTG反向升压驱动
- 开关频率可调以适应EMI要求
- I2C接口用于配置充电参数及状态
- 完善的保护机制, 包含过流过压过温等



型号	PSC5415A	PSC5425A
最大充电电流	1.5A	2.5A
高阻模式漏电流	<1uA	<1uA
耐压 / OVP	20V / 6.0V	20V / 6.0V
开关频率	1.5Mhz	1.5Mhz/2.1Mhz
通讯方式	I2C	I2C
OTG	Y(500mA)	Y(1500mA)
路径管理	NA	NA
封装类型	WLCSP20	WLCSP20

Products _ Charge IC _ PSC2725/PSC2925

QFN封装开关充电IC



PSC2725/PSC2925技术特点:

- 兼容主流充电芯片
- 支持动态路径
 - 过放电池快速开机
 - 充满断开电池
 - 运输模式断开电池
- 四段式充电流程：激活-涓流-恒流-恒压
- 充电模式效率最高~94%;
- 支持反向OTG升压驱动
- 输入限压限流可调档位
- 完善保护机制

型号	PSC2725	PSC2925	PB15205	PB9550
最大充电电流	3.0A	4.5A	2.5A	4.5A
升压驱动	5V/1.5A	5V/2.5A	5V/2.1A	5V/3A 9V/2A 12V/1.5A
耐压 / OVP	20V / 6.0V	20V / 13.5V	7.0V / 6.0V	18V / 13.5V
开关频率	1.5M	1.2M	1.2Mhz	1.2M
通讯方式	I2C	I2C	I2C/按键	I2C/按键
路径管理	Y	Y	N	N
封装类型	QFN4*4-24L	QFN4*4-24L	QFN3*3-20L	QFN4*4-32L

Products _ Charge IC _ PB1520X



四合一移动电源主控芯片 3.0A充电 2.4A放电IC

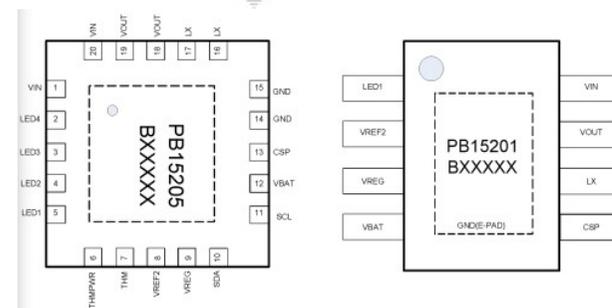
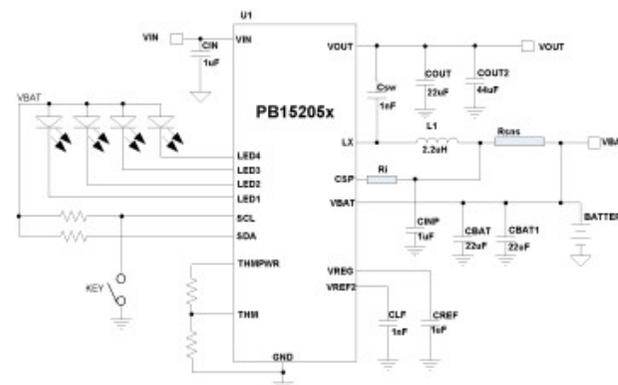
PB1520X技术特点:

①同步开关充电

- 最大3.0A充电电流
- 充电最大效率：95%
- 自适应输入电压环路，匹配不同充电器
- 支持多种电压电池
 - 4.2V (PB15201,ESOP8)
 - 4.35V (PB15201B,ESOP8)
 - 默认4.2V，可配置 (PB15205,QFN20)
 - 默认4.35V，可配置 (PB15205B,QFN20)
- 支持电池温度检测，异常降低充电电流至25%
- 充电电压精度：+/-0.5%(室温)

②同步开关放电

- 最大2.4A放电电流
- 升压模式效率最高95%
- 支持电池温度检测，异常退出升压模式
- 支持1小时小电流（手环等）放电模式

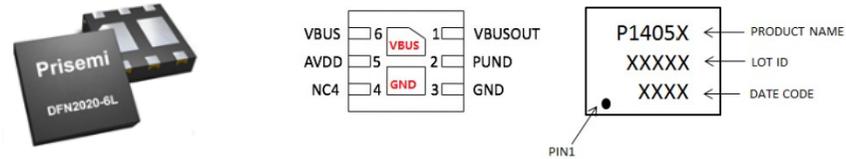


型号	PB1520A/B	PB15205
最大充电电流	2.5A	3.0A
OTG	2.0A	2.5A
耐压 / OVP	7.0V / 6.0V	7.0V / 6.0V
开关频率	1.0MHZ	1.0MHZ
通讯方式	I2C/Key	I2C/Key
路径管理	N	N
封装类型	ESOP8	QFN3x3-20

Products _ OVP IC _ PSC1405x Series

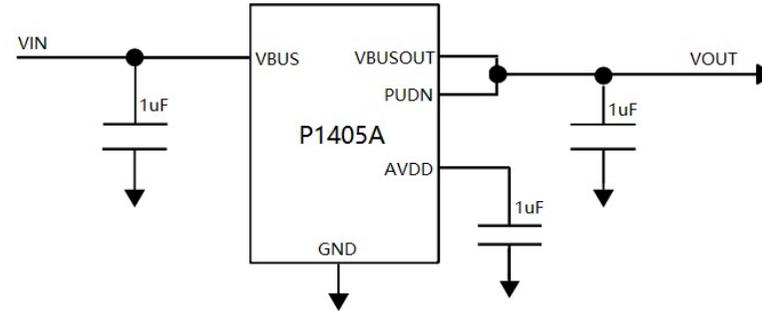


OVP过压保护IC



技术特点:

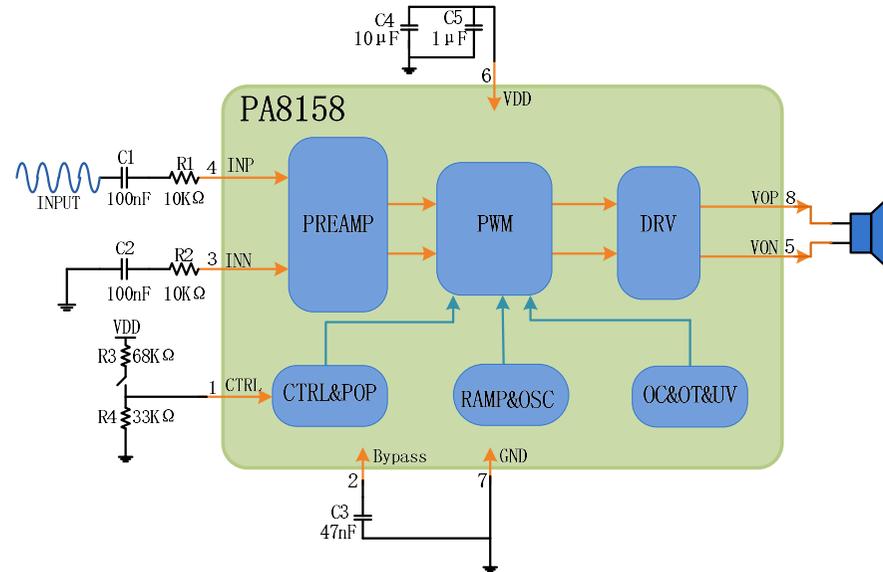
- 30V输入耐压
- Typical 30m欧姆导通阻抗
- 支持软启动, DFN6 2*2、WLCSP6/9
- OVP响应时间50ns
- 内置过温、过压等完善的保护机制
- 用于手机、pad、鼠标、可穿戴设备的OVP保护



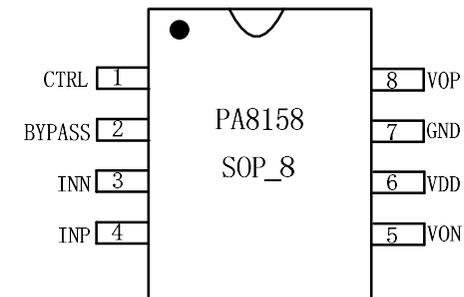
型号	P1405A	P1405B	P1405C	P1405D	P1465	P1495
输入耐压	30V	30V	30V	30V	30V	30V
导通电阻	30mΩ	30mΩ	30mΩ	30mΩ	35mΩ	35mΩ
OVP阈值	6.0V fixed	10.5V fixed	13.5V fixed	5.6V fixed	6.8V可调	6.8V可调
封装类型	DFN2*2-6L	DFN2*2-6L	DFN2*2-6L	DFN2*2-6L	WLCSP6	WLCSP9

5W高保真低噪声增益智能 控制单声道D类功率放大器

- 免滤波D类
- 集成AGC功能
- 输出功率5W@2Ω (THD+N=10%, 5V)
- 工作电压域: 2.5V~5.5V
- 低失真THD+N=0.02%@1W, 5V
- POP声抑制
- 高效率90%
- 高PSRR=80dB
- 过流、过温、欠压保护
- 全差分/单端输入
- 低噪声70uVrms (GAIN=10V/V)



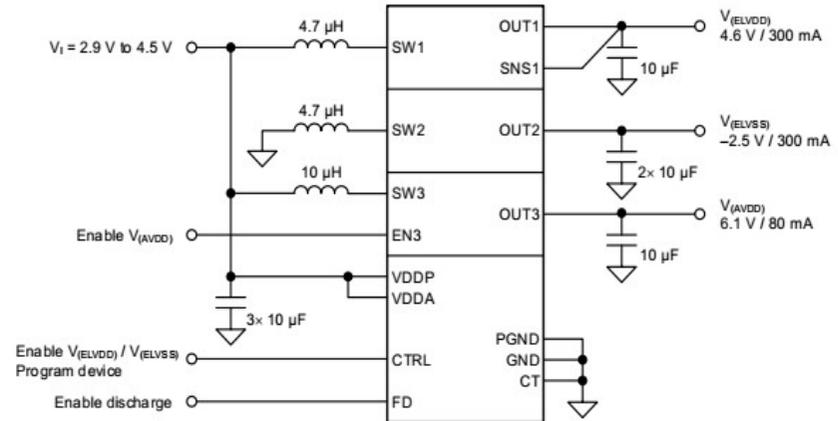
- 失调电压<10mV
- 静态电流4mA
- 关断电流<0.1uA
- SOP_8封装



三路AMOLED屏幕驱动IC

技术特点:

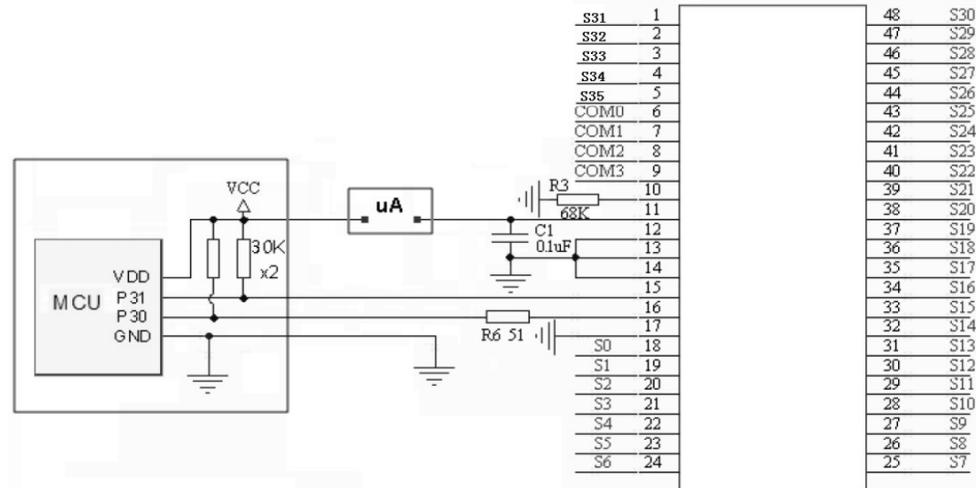
- 三路电源驱动: ELVDD、ELVSS、AVDD
- 电压精度: 0.5%/0.8%
- 电流能力: 300mA
- CTRL支持三路输出电压独立可调
- FD端口支持主动放电控制
- 支持芯片并联提高驱动能力
- 输入输出完全隔离



型号	PMO65651	PMO65652	PMO65451
电流能力	300mA	500mA	200mA
高阻模式漏电流	<1uA	<1uA	<1uA
通道数	3	3	2
开关频率	1.5Mhz	1.5Mhz	1.5Mhz
输出电压独立可调	Y	Y	Y
电压精度	0.5%	0.5%	0.5%
封装类型	QFN3*3-16L	QFN3*3-16L	DFN10

IC低功耗段式LCD驱动

- 兼容ROHM BU9792
- 超低功耗设计 (4.5uA典型值)
- 液晶驱动输出: 144段
- 1/2,1/3 Bias 1/4 Duty
- I2C通讯接口
- 不需外置元件
- 搭载闪烁功能
- 工作电源电压: 2.5 ~ 5.5V



应用领域

- 智能手环, 体重秤等移动终端显示
- 电表、水表等计量专用表头。
- 手持式仪表: 万用表、电子称等。

工作电流 4.5uA
关断电流 < 0.1uA

About Company

Products

Marketing

Partners

Marketing _ Overview

MAIN



PHONE & MID



TELECOM



SECURITY



LIGHTING

OTHERS



DIGITAL HOME



POS



POWER SUPPLY



AUTOMOBILE

Marketing _ Phone/MID

BACK LIGHT

- PL6T611(Driver IC)
- PSBD3D40V1H (Schottky)

Motor

- PSBD521S-30(Schottky)
- PSBD520S-30(Schottky)

Audio Port

- PESDNC2FD5VBS(ESD)
- PESDNC2FD5VB(ESD)

Keypad

- PESDNC2FD5VBS(ESD)
- PESDNC2FD5VB(ESD)
- PESDNC2FD4V5B(ESD)

USB Solutions

- PESDUC2FD5VU/B(ESD)
- PESDWC2FD5VB(ESD)
- PESDMC2FD5VB(ESD)

Vbat

- PESDHC2FD4V5BH(EOS/ESD)
- PTVSHC3D4V5B(EOS/ESD)
- PTVSHC2EN4V5B(EOS/ESD)
- PTVSHC3N4V5B(EOS/ESD)
- PTVSHC3N4V8U(EOS/ESD)
- PTVSHC3N5VU(EOS/ESD)

NFC

- PESDUC2FD18VB(ESD)
- PESDMC2FD18VB(ESD)



Earphone

- PESDNC2FD5VB(ESD)
- PESDUC2FD5VU/B(ESD)
- PESDMC2FD5VB(ESD)

ATV Antenna

- PESDUC2FD5VU/B(ESD)
- PESDUC3FD5VU(ESD)
- PESDWC2XD5VB(ESD)

LCD Data Lines

- PESDWC2FD5VB(ESD)
- PESDUC2FD5VU/B(ESD)

SIM Card Slot

- PESDLC553T5VU(ESD)
- PESDUC2FD5VU/B(ESD)

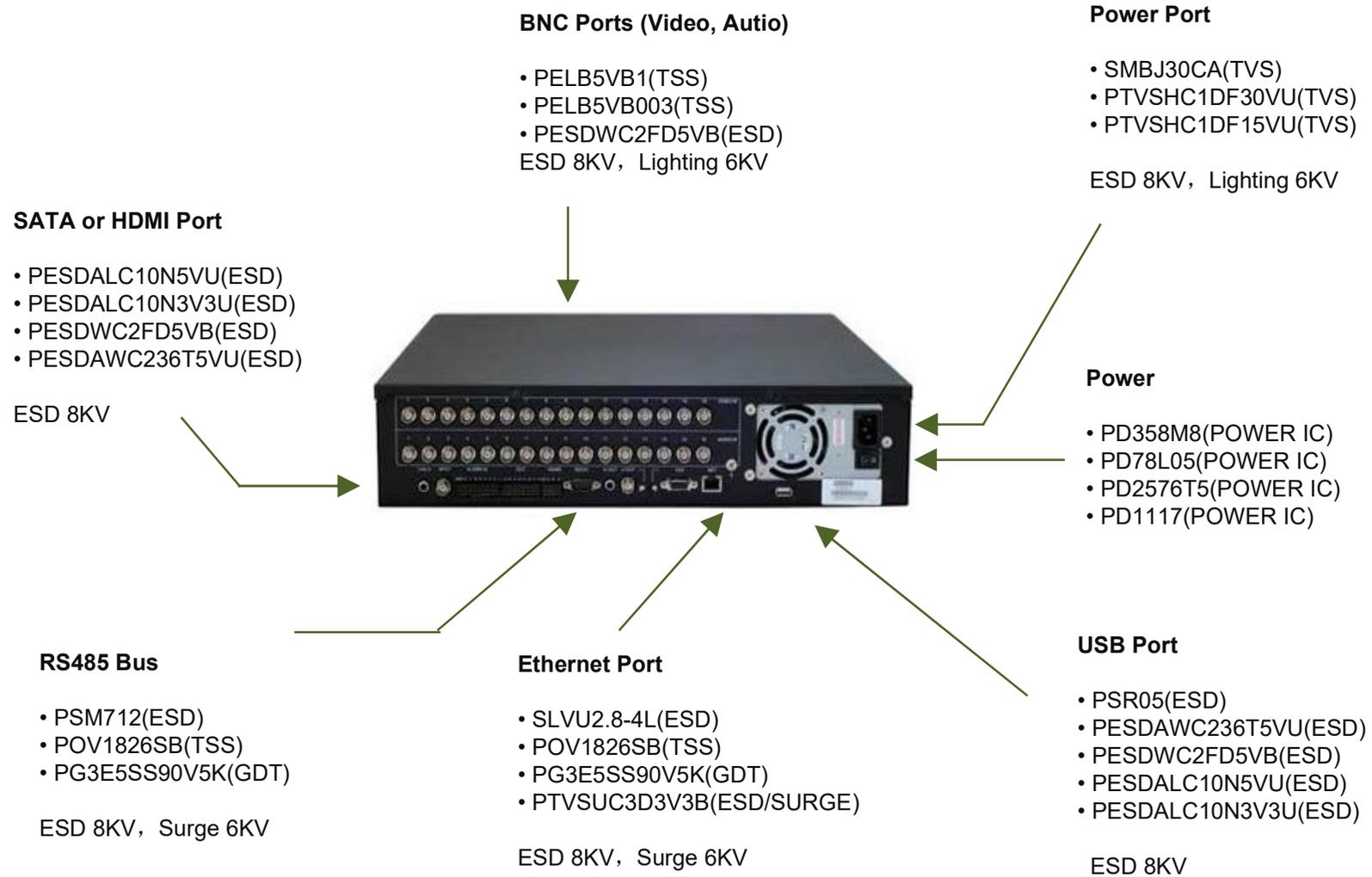
Keypad LED

- PDTC143TM(Digital Transistor)
- PDTC143ZM(Digital Transistor)

VCH

- PTVSHC3D7VUH(EOS/ESD)
- PTVSHC1DF7VBH(EOS/ESD)
- PTVSHC3N7VU(EOS/ESD)
- PTVSHC3D12VUH(EOS/ESD)
- PTVSHC1TF12VU(EOS/ESD)
- PTVSHC3N12VU(EOS/ESD)
- PTVSHC1TF15VU(EOS/ESD)
- PTVSHC3N15VU(EOS/ESD)
- PTVSHC1DF24VBH(EOS/ESD)
- PTVSHC1TF24VBH(EOS/ESD)
- PTVSHC3N24VUP(EOS/ESD)
- PSC5415A(Charger IC)
- PSC5425A(Charger IC)

Marketing _ DVR/NVR



Marketing _ IPC

I/O Port

- PELB5VB003*4(TSS) ,
- SMBJ15CA*4(TVS)
- PTVSHC1DF15VU(TVS)

ESD 8KV, Surge 6KV

Power

- PD358M8(POWER IC)
- PD78L05(POWER IC)
- PD2576T5(POWER IC)
- PD1117(POWER IC)



RJ45(POE)

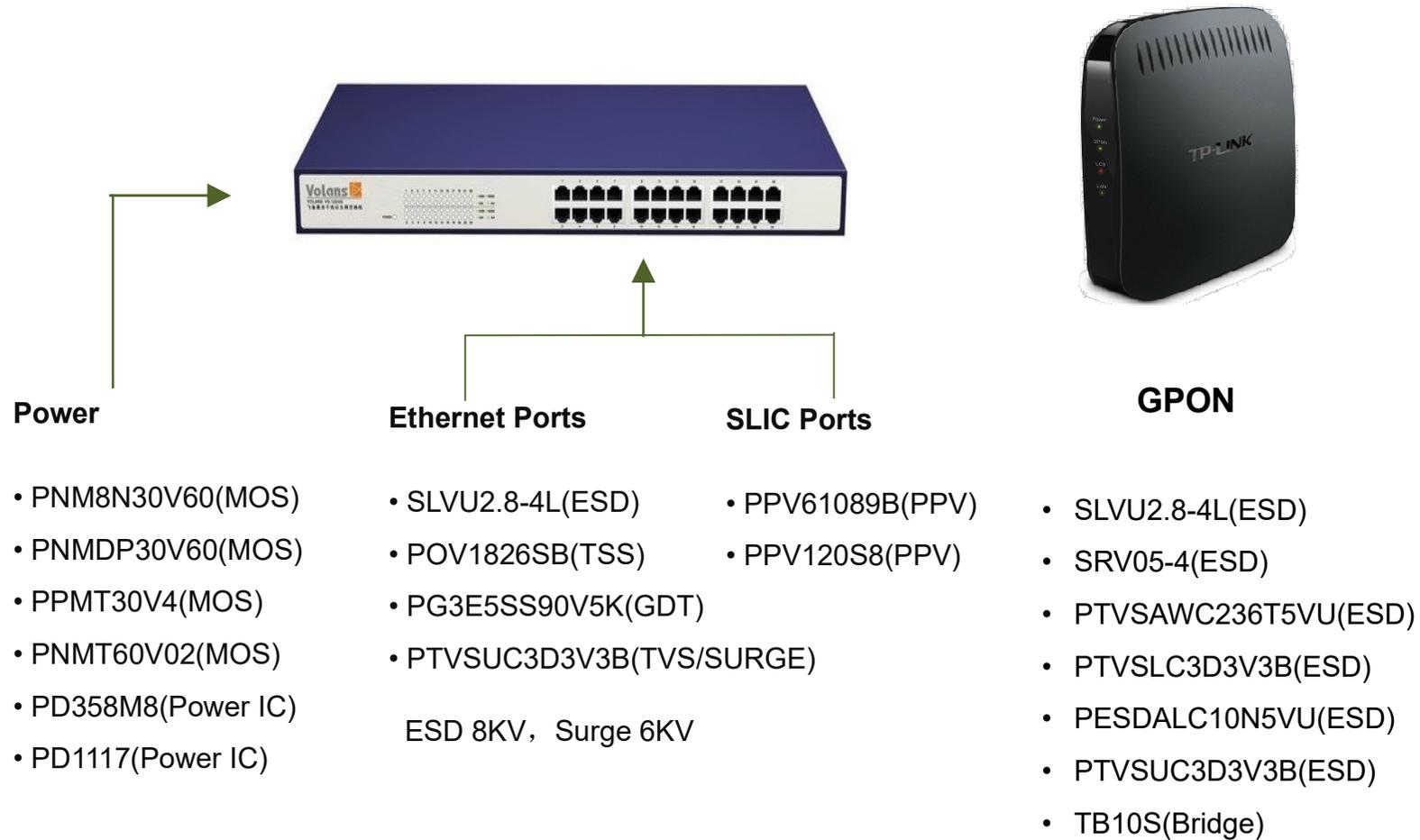
- SLVU2.8-4L(ESD)
- PG2E5SS90V5K*2(GDT)

ESD 8KV, Surge 6KV

RS485 Bus

- PSM712(ESD)
- POV1826SB(TSS)
- PG3E5SS90V5K(GDT)
- SMBJ15CA(TVS)
- PTVSHC1DF15VB(TVS)

ESD 8KV, Surge 6KV



Marketing _ Lighting



Indoor Lighting

Bridge

- MB6F-MB10F
- TB6S-TB10S

Mosfet

- PNMDP600V2-
PNMDP600V4
- PNMTO(F)600V4-
PNMTO(F)600V8

TVS

- SMBJ series TVS

Schottky

- PSBDA40V3

Power IC

- PD34063M8
- PD358M8
- PD431Z

Outdoor Lighting

Bridge

- MB10F(46mil) MB10F-12(50mil)
- TB10S(46mil) TB10S-12(50mil)

Mosfet

- PNMTO(F)600V4-PNMTO(F)600V20

Schottky

- PSBDA40V3/PSBDC40V3

TVS & OVP

- PSM712
- SMBJ series TVS
- POV1826SB
- PG3E5SS90V5K



Marketing _ Others



Power Controller --Power IC

- PD317T3
- PD358M8
- PD78L05Z(R)
- PD431Z
- PD393



Smart Band

- PNMUT20V06(NMOS)
- PESDNC2FD5VB(ESD)
- PESDNC2FD5VBS(ESD)
- PSBD2XD30V005(Schottky)



Adapter --Power IC

- PD324
- PD3842
- PPM8P30V10(PMOS)
- PNM8N30V60(NMOS)
- PNMDP30V60(NMOS)
- PNMTO(F)600V8(NMOS)

Switching Power --Power IC

- PD3842
- PD7500
- PD494
- PD324
- PD358
- PD431
- PD4558
- PNMTO(F)650V4-PNMTO(F)650V8
- SMBJ Series TVS



Set Top Box --Power IC:

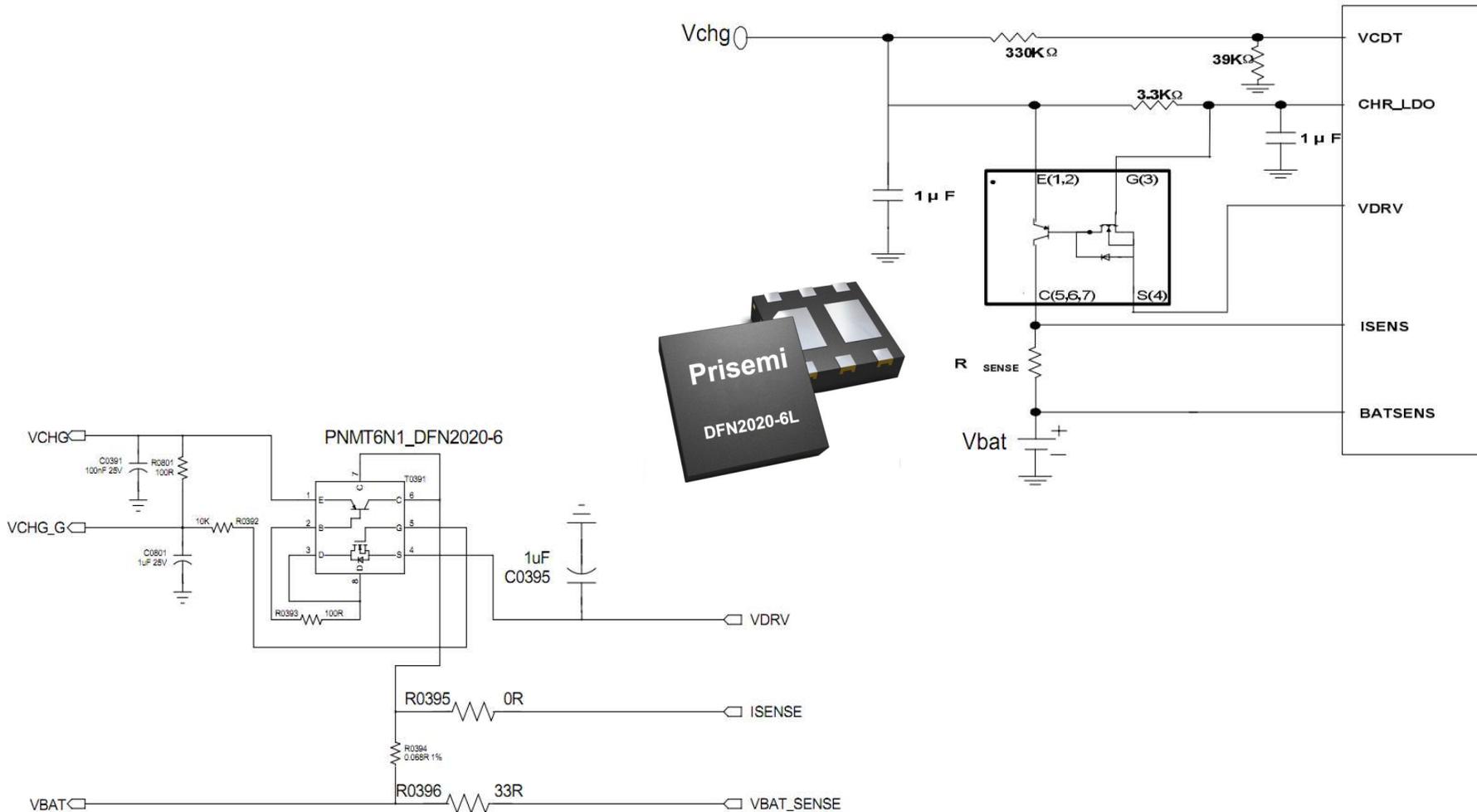
- PD317T3
- PD358M8
- PD78L05Z(R)
- PD431Z
- PD4558
- PD1117
- PESDALC10N5VU(ESD)
- PESDAWC236T5VU(ESD)
- PSR05(ESD)
- BAV99(Switch diode)



Marketing _ Application



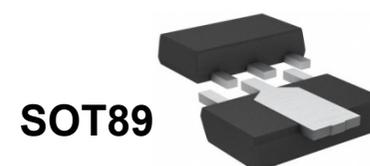
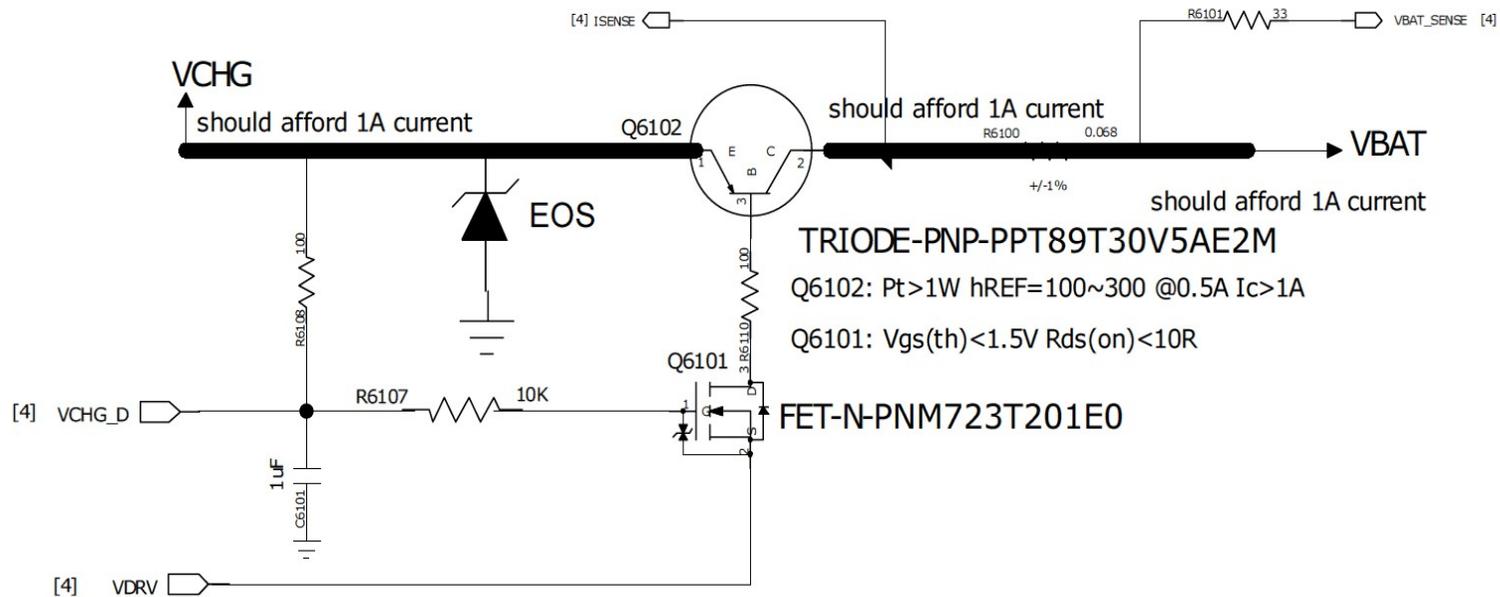
Prisemi 綫性充電方案 (PNMT6N1/PNMT6N1A/PNMT6N1B等)



Marketing _ Application

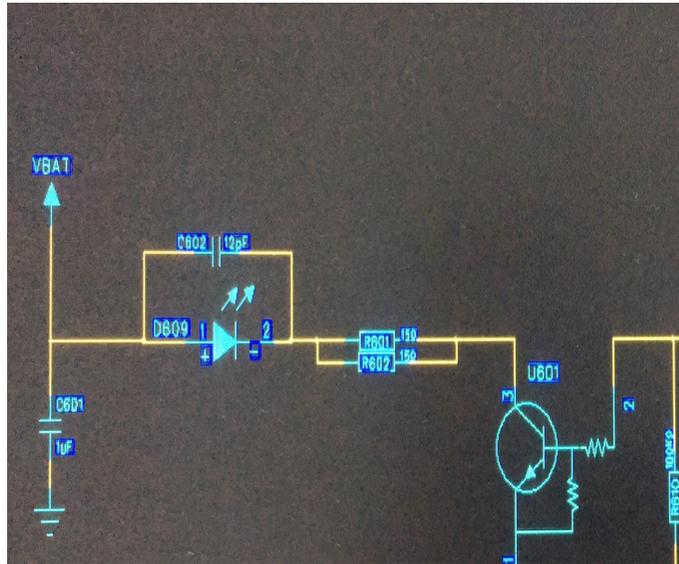
Prisem 綫性充電方案 (PNMT723T30V01+PPT89T30V5AE/PT236T30E2H)

CHARGE



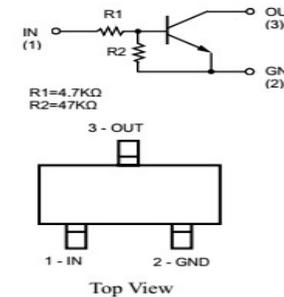
Marketing _ Application

NMOS/数字三极管做开关控制LED



MOS的功率损耗主要是其RDSON参数

三极管的功率损耗主要是其VCES压降，一般三极管压降可以在0.2-0.3V，可以满足大部分开关应用。



是MOS最为典型的应用，比如作为充电显示LED驱动，采用数字三极管（内部集成电阻的三极管）的好处是不用外挂电阻同时避免干扰。

Prisemi 通用的SOT723 数字三极管PDTC143ZM可以替换MOS SOT723 PNM723T703E0-2

也可以替换其他品牌MOS作为开关应用。

数字三极管1.8V可以充分打开，打开时候VCES 50mA 时饱和压降大概 0.2V，额定电流 100mA，。做开关应用时可以的，而且我们有给很多知名品牌客户大批量出货。

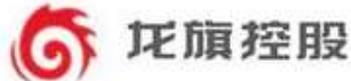
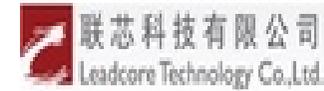
About Company

Products

Marketing

Partners

Partners _ Phone/MID



Partners _ Telecom/Lighting/Security/Others/EMS



Telecom



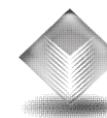
Lighting



Security



Others



EMS



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Thanks!

Thanks!

2018