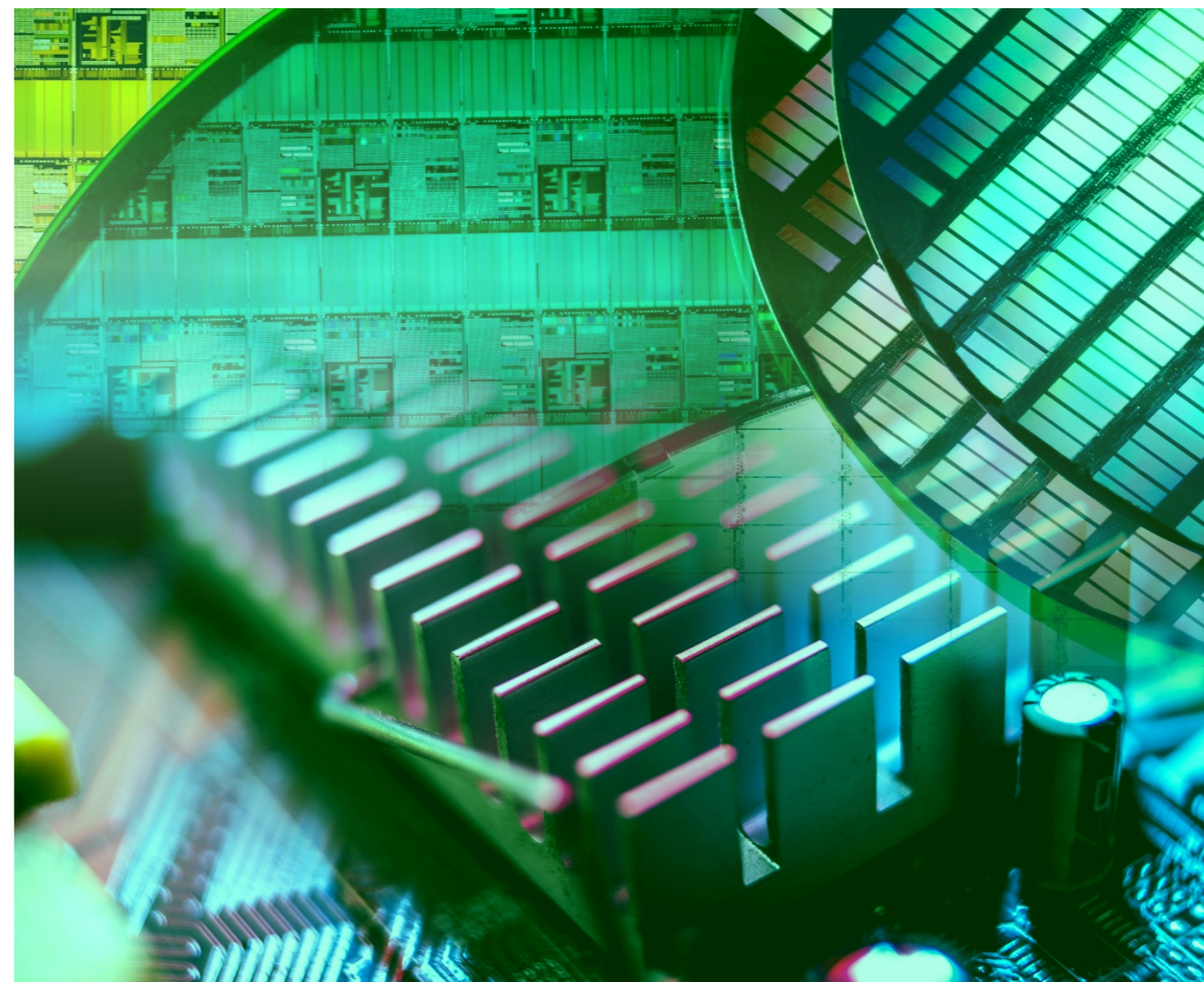




扫描关注  
“美浦森半导体”

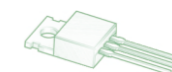


### 深圳

广东省深圳市宝安区宝源路  
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### 上海研发中心

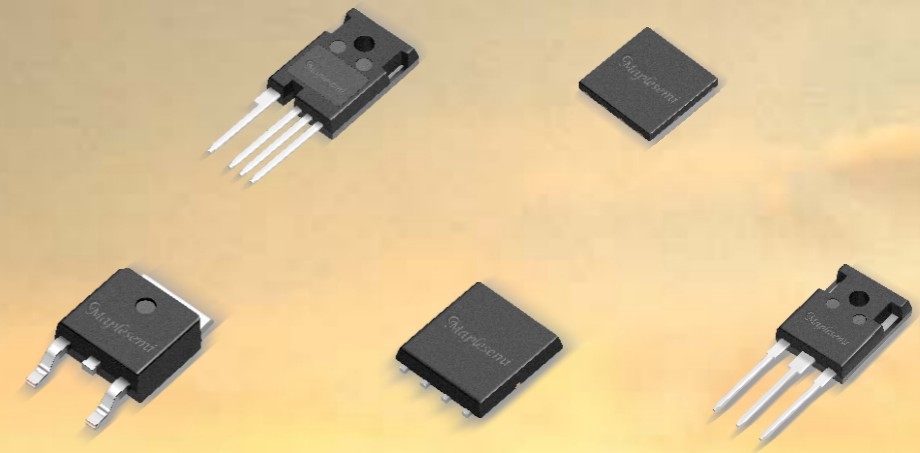
上海浦东新区沪南路2419弄30号  
万科活力城B座308室



产品选型手册  
Product Selection  
Manual  
2022.11

用领先的行业技术,创造出性价比最高的产品,服务于我们的客户

我们在功率半导体的设计、开发和批量生产方面树立了新的榜样 (Power MOSFET、Super Junction Power MOSFET、SiC Diode、SiC MOSFET、FRD、IGBT) 并将客户服务作为首要任务,努力成为行业标杆企业,为客户创造最大价值。



## ● 产品应用领域

### ● 5G通信 PC电源

通讯电源 基站电源系统 电脑铂金电源 矿机电源

### ● LED照明 工业电源 汽车电子

LED照明 LED显示屏电源 工控电源 逆变电源 UPS 新能源等

### ● PD 快充, 适配器

PD 电源 手机充电器 笔记本适配器

### ● BMS BLDC

锂电保护板 直流风扇 伺服电机 电动工具 无人机 智能机器人等

### ● 消费类电子

移动电源 无线充 电子烟 蓝牙耳机 手持移动设备等

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## ● 公司简介 (Company Profile)

深圳市美浦森半导体有限公司 2014年成立, 总部位于深圳, 是一家专业功率半导体元器件设计公司。公司产品包括中大功率场效应管(高中低压全系列产品, Trench MOSFET/SGT MOSFET /Super Junction MOSFET / Planar MOSFET), SiC 二极管、SiC MOSFET等系列产品。

美浦森半导体在深圳/上海设有研发中心, 主要研发人员在产品研发和生产制程方面都具有丰富的行业经验, 平均行业经验在15年以上。在深圳建立有半导体功率器件测试和应用实验室, 主要负责产品的设计验证、参数测试、可靠性验证、系统分析、失效分析等, 承担美浦森产品的研发质量验证。目前, 美浦森半导体MOSFET和碳化硅系列产品在LED电源、PD电源、PC和服务器电源、光伏逆变、UPS、充电桩、智能家居、BLDC、BMS、小家电等领域得到广泛应用。

创新 高效 热爱 持续是美浦森半导体的核心价值; 用创新实现突破, 是公司不断前进的动力源泉。专业于MOSFET器件领域的拓展, 运用创新的电路设计和国际同步的研发技术, 成功研发出新一代MOSFET系列产品, 产品相关性能达到行业领先水平。我们始终坚持不断创新、不断突破, 始终保持产品第一、技术第一、服务第一的行业领先地位, 全心全意做好产品的开发与用户的极限体验。

## ● 公司发展历程

2019-2020

碳化硅全系6寸生产线升级结束, 碳化硅MOS正式批量接单  
中低压Trench/SGT MOS批量出货。

2017-2018

超结MOS E7系列产品开始批量出货, RSP参数超越竞品系列产品;  
成立深圳器件测试及可靠性实验室、产品应用实验室。

2015-2016

650V SiC DIODE系列产品面市推广, 并大批量出货;  
1200V SiC DIODE研发成功, 进入批量阶段;  
碳化硅MOS验证成功。

2014

2014年深圳市美浦森半导体有限公司成立,  
同年正式推广“美浦森”品牌MOS系列产品。

## ● 功率器件实验室&应用实验室

投资2000万人民币兴建器件分析实验室和应用实验室, 负责美浦森产品的设计验证, 品质监控和客户的技术支持。

2022年“美浦森实验室”将扩充至800平方, 并正在申请国家CNAS认证实验室资格。

- 1 产品设计验证\产品性能比对\动静态参数测试\极限参数测试
- 2 可靠性验证\失效分析\产品品质监控
- 3 系统应用分析\系统性能验证



KEYENCE显微镜



KEYSIGHT功率器件分析仪



TEKTRONIX功率器件动态测试仪



JUNO直流参数测试系统



ISPEC高温反偏实验系统



STATEC测试系统

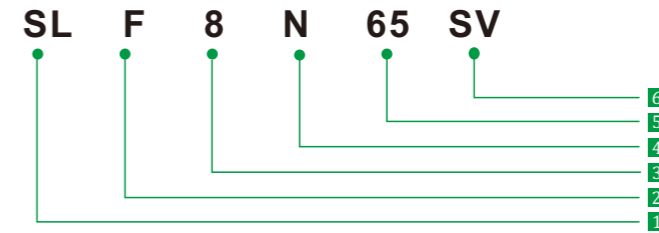
## ● 高压MOSFET (VDMOS)

Products	PKG	BVdss[V]	ID(A)	RDS(ON)[Ω]		VTH[V]	Application		
				Typ	Max				
SLP32N20C	TO-220F/263	200	32	0.08	0.10	2.0 ~ 4.0	Inverter		
SLP3103	TO-220P/F/H	260	38	0.12	0.16				
SLF740UZ	TO-220F	430	11	0.53	0.64				
SLF750U	TO-252/220F	430	11	0.54	0.64				
SLD5N50S2	TO-252/220F	500	5	1.32	1.6	2.0 ~ 4.0	Ballast Switching Power LCD Power PC Power LED Power		
SLD850U	TO-263/252/220/220F		9	0.80	0.90				
SLF13N50A	TO-220/220F		13	0.42	0.52				
SLF13N50U	TO-220/220F		13	0.4	0.48				
SLF13N50C	TO-220/220F		13	0.4	0.48				
SLF16N50S	TO-220/220F/3P		16	0.32	0.4				
SLF16N50C	TO-220/220F/3P		16	0.3	0.38				
SLF18N50A	TO-220F		18	0.25	0.35				
SLF18N50S	TO-220F/3P		18	0.23	0.32				
SLF18N50C	TO-220F/3P		18	0.23	0.32				
SLF20N50A	TO-220F		20	0.23	0.27				
SLF20N50S	TO-220F/3P		20	0.21	0.26				
SLF20N50C	TO-220F/3P		20	0.21	0.26				
SLF25N50U	TO-3P		25	0.2	0.23				
SLF30N50U	TO-220F/3P		30	0.14	0.16				
SLH40N50U	TO-3P/247		40	0.08	0.1				
SLH50N50U	TO-3P/247		50	0.07	0.09				
SLF2N60S	TO-251/252/220F		600	2	4	5		2.0 ~ 4.0	LED Power Switching Power LCD Power Charger Adapter PC Power
SLF5N60SV	TO-251/252/220F			4.5	1.9	2.5			
SLF8N60SV	TO-220/220F	7.5		1	1.2				
SLF10N60SV	TO-220/220F	10		0.75	0.87				
SLF12N60C	TO-220/220F	12		0.51	0.61				
SLF14N60S	TO-220/220F	14		0.43	0.53				
SLF16N60S	TO-220/220F	16		0.35	0.45				
SLF18N60S	TO-220F	18		0.31	0.41				
SLF20N60S	TO-220F	20		0.29	0.37				
SLD2N65S	TO-251/252/220F	650		2	4.3	5.3	2.0 ~ 4.0	LED Power LCD Power Charger Adapter Switching Power	
SLF5N65SV	TO-251/252/220F		4.5	2.1	2.6				
SLF5N65C	TO-220/220F		5	2.3	3				
SLF7N65SV	TO-220/220F/252		7.5	1.2	1.5				
SLF10N65A	TO-220/220F		10	0.82	0.97				
SLF10N65C	TO-263/220F/220		10	0.68	0.81				
SLF12N65SV	TO-263/220F/220		12	0.62	0.75				
SLF12N65C	TO-263/220F/220		12	0.6	0.75				

## ● 高压MOSFET (VDMOS)

Products	PKG	BVdss[V]	ID(A)	RDS(ON)[Ω]		VTH[V]	Application
				Typ	Max		
SLF14N65S	TO-220F/220	650	14	0.51	0.66	2.0 ~ 4.0	LED Power LCD Power Charger Adapter Switching Power
SLF16N65S	TO-220F/220		16	0.41	0.51	3.0 ~ 5.0	
SLF18N65S	TO-220F		18	0.38	0.48	3.0 ~ 5.0	
SLF20N65S	TO-220F		20	0.35	0.44	3.0 ~ 5.0	
SLF20N65U	TO-220F/220		20	0.38	0.44	3.0 ~ 5.0	
SLF4N70S	TO-220F	700	4	2.3	3.0	2.0 ~ 4.0	Charger Adapter Switching Power
SLF7N70S	TO-252/220F		7	1.3	1.6	2.0 ~ 4.0	
SLF10N70S	TO-252/220F		10	0.90	1.15	2.0 ~ 4.0	
SLF12N70S	TO-220F		12	0.72	0.8	2.0 ~ 4.0	
SLF7N80C	TO-220/220F	800	7	1.20	1.9	3.0 ~ 5.0	Switching Power
SLW9N90C	TO-220F/3P	900	9	1	1.4	2.0 ~ 4.0	Electric welding
SLH3N150U	TO-3P/247	1500	3	5	6.5	3.0 ~ 5.0	Auxiliary Power

## ● 高压MOSFET命名方式



1 公司简称

2 封装形式

P: TO-220  
F: TO-220F  
H: TO-247  
W: TO-3P  
D: D-Pak(TO-252)  
U: I-Pak(TO-251)  
B: D2-Pak(TO-263)  
I: I2-Pak(TO-262)

3 额定电流

4 沟道极性

N: N-channel  
P: P-channel

5 电压系数(x10)

6 芯片工艺

C: MOS C-FET  
U: MOS U-FET  
S: MOS S-FET  
UZ: MOS U-FET+ESD  
(Z: Zener diode)

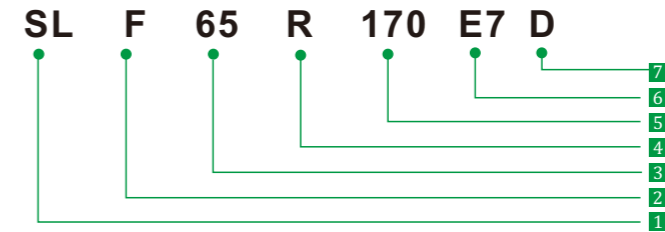
## 超结MOSFET (SJ MOS)

Products	PKG	BVdss[V]	ID(A)	RDS(ON) [Ω](Max)	VTH[V]	Application	
SLF60R380E7	TO-220F	600	11	0.38	2.5~4.5	PV Inverter Power Charging Pile Power Solar Inverter Wind Turbine OBC	
SLF60R280E7	TO-220F		15	0.28	2.5~4.5		
SLT60R190E7D	PTO-252		20	0.19	2.5~4.5		
SLL60R190E7D	DFN 8x8		20	0.19	2.5~4.5		
SLH60R190E7D	TO-247		20	0.19	2.5~4.5		
SLF60R180E7D	TO-220F		20	0.18	2.5~4.5		
SLF60R105E7D	TO-220F		38	0.105	2.5~4.5		
SLP60R105E7D	TO-220		38	0.105	2.5~4.5		
SLB60R105E7D	TO-263		38	0.105	2.5~4.5		
SLL60R105E7D	DFN8x8		38	0.105	2.5~4.5		
SLP60R105E7D	TO-220		38	0.105	2.5~4.5		
SLF60R090E7	TO-220F		38	0.09	2.5~4.5		
SLW60R090E7	TO-3P		38	0.09	2.5~4.5		
SLH60R090E7	TO-247		38	0.09	2.5~4.5		
SLF60R075E7D	TO-220F		50	0.075	2.5~4.5		
SLP60R075E7D	TO-220		50	0.075	2.5~4.5		
SLH60R075E7D	TO-247		50	0.075	2.5~4.5		
SLF60R065E7	TO-220F		50	0.065	2.5~4.5		
SLW60R065E7	TO-3P		50	0.065	2.5~4.5		
SLH60R065E7	TO-247		50	0.065	2.5~4.5		
SLH60R043E7D	TO-247	70	0.043	2.5~4.5	OBC/Server power		
SLH60R040E7	TO-247	70	0.04	2.5~4.5			
SLH60R030E7D	TO-247	80	0.03	2.5~4.5			
SLH60R028E7	TO-247	80	0.028	2.5~4.5			
SLD65R1K2E7	TO-252/220F	650	4	1.20	2.0~4.0	TV Power	
SLD65R1K1E7	TO-252/220F		5	1.10	2.0~4.0		
SLD65R600E7	TO-252/220F		8	0.60	2.5~4.5		
SLE65R600E7	SOT-223-2L		8	0.60	2.5~4.5	LED Power	
SLM65R380E7	DFN5x6		11	0.38	2.5~4.5		
SLD65R380E7	TO-252		11	0.38	2.5~4.5	Charger Power	
SLF65R380E7	TO-220F		11	0.38	2.5~4.5		
SLD65R280E7	TO-252		15	0.28	2.0~4.0	Adapter Power	
SLF65R280E7	TO-220F		15	0.28	2.5~4.5		
SLT65R180E7	PTO-252		22	0.18	2.5~4.5	Switching Power	
SLL65R170E7	DFN8x8		22	0.17	2.5~4.5		
SLF65R170E7	TO-220F		22	0.17	2.5~4.5		
SLH65R170E7	TO-247		22	0.17	2.5~4.5		
SLD70R600E7	TO-252		700	7	0.70		2.0~4.0
SLF70R600E7	TO-252			7	0.70	2.0~4.0	
SLD70R380E7	TO-252	12		0.42	2.0~4.0		

## 超结MOSFET (SJ MOS)

Products	PKG	BVdss[V]	ID(A)	RDS(ON) [Ω](Max)	VTH[V]	Application
SLF70R380E7	TO-220F	700	12	0.42	2.0~4.0	Charger Power Switching Power
SLD70R280E7	TO-252		15	1.30	2.5~4.5	
SLF70R280E7	TO-220F		15	0.36	2.0~4.0	
SLF70R190E7	TO-220F		20	0.19	2.0~4.0	
SLD80R850SJ	TO-252/220F	800	7	0.85	2.5~4.5	TV Power Charger Power Adapter Power Switching Power
SLD80R500SJ	TO-252/220F		11	0.50	2.5~4.5	
SLF80R380SJ	TO-220F		15	0.38	2.5~4.5	
SLF80R290S2	TO-220F		17	0.29	2.0~4.0	
SLF80R240SJ	TO-220F/247		20	0.24	2.5~4.5	

## 超结MOSFET命名方式



1 公司简称

2 封装形式

P: TO-220 F: TO-220F H: TO-247  
W: TO-3P D: D-Pak(TO-252)  
U: I-Pak(TO-251)  
B: D2-Pak(TO-263)  
I: I2-Pak(TO-262)  
L: DFN8X8

超结产品特点

- Trr时间缩短: 反向恢复时间快
- Qg电荷小: 开关速度快, 开关损耗小
- Rds(on)值小: 通态阻抗小, 通态损耗小
- PKG体积小: 同等功率规格下封装小, 有利于功率密度的提高

3 额定电压

4 Rds(on)缩写

5 Rds(on)数值  
单位: mΩ

6 芯片工艺

SJ: MOS SJ-FET  
E7: MOS E7-FET  
E7D: MOS FRD

7 快恢复二极管(FRD)

● 中低压MOSFET (MV/LV MOS)

Products	PKG	Polarity	Bvdss [V]	I <sub>b</sub> (A)	V <sub>GS</sub> (V)	V <sub>TH</sub> (V)	R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		Application
							@V <sub>GS</sub> =10v		@V <sub>GS</sub> =4.5v		@V <sub>GS</sub> =2.5v		
							Typ	Max	Typ	Max	Typ	Max	
SLV2302A	SOT-23	N	20	4.3	±12	0.7	/	/	19	27	26	38	Load Switching
SLV2302T	SOT-23	N	20	4	±12	0.7	/	/	21.5	30	28.5	40	
SLV2302B	SOT-23	N	20	3.5	±12	0.7	/	/	34.5	45	46	57	
SLV2302C	SOT-23	N	20	3	±12	0.7	/	/	50	70	72	90	
SLV2312T	SOT-23	N	20	7	±12	0.7	/	/	13.5	18	17	23	Battery Protection
SLV2305T	SOT-23	N	-20	-5	±12	-0.65	/	/	32	42	42	60	
SLV8205A	SOT23-6	DUAL-N	20	5	±12	0.7	/	/	18.5	25	26	34	
SLT8205A	TSSOP8	DUAL-N	20	5	±12	0.7	/	/	19	25	22	35	
SLN50P02T	DFN3x3	P	-20	-50	±12	-0.65	/	/	5.2	7.5	6.5	9	E-Tool /BMS / Motor driver
SLD40N02T	TO-252	N	20	40	±12	0.7	/	/	7.5	12	11.5	18	
SLD60N02T	TO-252	N	20	60	±12	0.7	/	/	4.6	6.0	5.6	7.5	
SLM60N02T	DFN5x6	N	20	60	±12	0.7	/	/	4.5	6.0	5.4	7.2	
SLD90N02T	TO-252	N	20	90	±12	0.7	/	/	2.8	4	4.0	6.0	Load Switching
SLD120N02T	TO-252	N	20	120	±12	0.7	/	/	2.1	2.8	2.8	3.5	
SLM90N02T	DFN5x6	N	20	90	±12	0.7	/	/	2.8	4	4.0	5.0	
SLV3400T	SOT-23	N	30	5.6	±12	0.8	20	25	22	45	/	/	
SLV3404T	SOT-23	N	30	5.6	±20	1.5	17.5	24	24	38	/	/	load Switching BMS
SLV2304T	SOT-23	N	30	3.6	±20	1.5	26	35	39	53	/	/	
SLV3402T	SOT-23	N	30	3	±12	0.9	35	44	38	48	/	/	
SLV3402C	SOT-23	N	30	2	±12	0.9	90	113	115	144	/	/	
SLV3406T	SOT-23	N	30	4	±20	1.6	29.5	39	44	59	/	/	BLDC Inverter
SLN30N03T	DFN3x3	N	30	30	±20	1.5	6.0	8.0	9.5	14	/	/	
SLN30D03T	DFN3x3	DUAL-N	30	30	±20	1.5	6.0	8.0	9.5	14	/	/	
SLD40N03T	TO-252	N	30	40	±20	1.6	6.0	8.5	11	15	/	/	
SLV3401T	SOT-23	P	-30	-4.2	±12	-0.8	44	55	54	68	/	/	BLDC BMS
SLV3407T	SOT-23	P	-30	-4.2	±20	-1.6	40	50	58	73	/	/	
SLN30P03T	DFN3x3	P	-30	-35	±20	-1.5	8.0	11	13	16.5	/	/	
SLS30L03A	SOP-8	P	-30	-30	±20	-1.5	25.5	34	36.5	46	/	/	
		N	30	30	±20	1.5	10.5	13	14.5	20	/	/	E-Tool BMS Inverter Load Switching
SLD30L03A	TO-252-4	P	-30	-30	±20	-1.5	23	34	34.5	46	/	/	
		N	30	30	±20	1.5	9.0	13	13.0	20	/	/	
SLS50P03T	SOP-8	P	-30	-50	±25	-1.5	8	10.5	12	16	/	/	
SLM60P03T	DFN5x6	P	-30	-60	±20	-1.5	5.5	7	8.3	10	/	/	BLDC BMS Inverter Load Switching
SLN60P03T	DFN3x3	P	-30	-60	±20	-1.5	5.8	7.3	8.5	11	/	/	
SLD80N03T	TO-252	N	30	80	±20	1.5	4.8	5.5	7.5	11	/	/	
SLP90N03A	TO-220	N	30	90	±20	1.5	4.5	5.5	6.5	8	/	/	
SLD90N03T	TO-252	N	30	90	±20	1.5	3.2	4.5	5.2	7	/	/	DC-DC Inverter
SLD100N03T	TO-252	N	30	100	±20	1.5	2.8	4	4.6	6.5	/	/	
SLN80N03T	DFN3x3	N	30	80	±20	1.5	4.5	5.0	6.5	10	/	/	

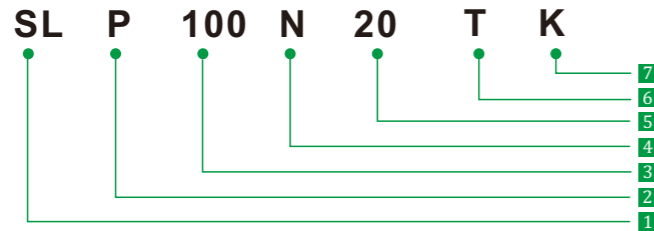
● 中低压MOSFET (MV/LV MOS)

Products	PKG	Polarity	Bvdss [V]	I <sub>b</sub> (A)	V <sub>GS</sub> (V)	V <sub>TH</sub> (V)	R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		Application
							@V <sub>GS</sub> =10v		@V <sub>GS</sub> =4.5v		@V <sub>GS</sub> =2.5v		
							Typ	Max	Typ	Max	Typ	Max	
SLN90N03T	DFN3x3	N	30	90	±20	1.5	3.2	4.3	5.5	6.8	/	/	DC-DC/ LED/ E-tool
SLM80N03T	DFN5x6	N	30	80	±20	1.5	4.5	5.0	6.5	10	/	/	
SLM90N03T	DFN5x6	N	30	90	±20	1.5	3.0	4	5	6.5	/	/	BLDC BMS Load Switching Inverters
SLM100N03T	DFN5x6	N	30	100	±20	1.5	2.8	4	5	6.5	/	/	
SLS100N03T	SOP-8	N	30	100	±20	1.5	2.8	4	4.6	6.5	/	/	
SLD120N03T	TO-252	N	30	120	±20	1.5	2.3	3.3	4.1	5.8	/	/	
SLM120N03G	DFN5x6	N	30	120	±20	1.5	1.15	1.5	1.5	2.2	/	/	BLDC PC POWER
SLM120N03T	DFN5x6	N	30	120	±20	1.5	3.1	4	4	5.6	/	/	
SLM160N03T	DFN5x6	N	30	160	±20	1.6	1.5	2.0	2.2	3	/	/	
SLD15N04T	TO-252	N	40	15	±20	1.5	18	24	27	45	/	/	
SLD60N04T	TO-252	N	40	60	±20	1.7	5.5	7	9	12	/	/	BLDC DC-DC
SLM60N04T	DFN5x6	N	40	60	±20	1.7	5.2	6.8	8.6	11	/	/	
SLD80N40T	TO-252	N	40	80	±20	1.6	4.2	5.5	6.5	10	/	/	
SLM80N04T	DFN5x6	N	40	80	±20	1.6	5.0	6.5	6.5	10	/	/	
SLD130N04T	TO-252	N	40	130	±20	1.5	2.2	3.3	3.2	4.6	/	/	BLDC BMS DC-DC Inverters
SLN40N04G	DFN3x3	N	40	40	±20	1.6	6.0	6.5	9	10.5	/	/	
SLM150N04G	DFN5x6	N	40	150	±20	1.7	1.6	1.8	2	3.3	/	/	
SLM160N04G	DFN5x6	N	40	160	±20	1.7	1.1	1.3	1.6	1.8	/	/	
SLD15P04T	TO-252	P	-40	-15	±20	-1.6	26.5	33.5	33	43	/	/	BLDC BMS DC-DC Inverters
SLN40P04T	DFN3x3	P	-40	-40	±20	-1.5	10.5	13.5	14	17.5	/	/	
SLS40P04T	SOP-8	P	-40	-40	±20	-1.5	10.5	13.5	14	17.5	/	/	
SLD20N06T	TO-252	N	60	20	±20	1.5	24	29	28	30	/	/	
SLS20D06T	SOP-8	DUAL-N	60	20	±20	1.5	22.5	30	28	39	/	/	Load Switching LED
SLD50N06T	TO-252	N	60	50	±20	1.7	14	16	17	25	/	/	
SLM50N06T	DFN5x6	N	60	50	±20	1.7	14	15.5	16	25	/	/	
SLP50N06T	TO-220	N	60	50	±20	1.7	14	17	16	25	/	/	
SLD80N06T	TO-252	N	60	80	±20	3	6.1	8.5	/	/	/	/	BLDC LED
SLM80N06T	DFN5x6	N	60	80	±20	3	6.1	8.5	/	/	/	/	
SLP120N06T	TO-220	N	60	120	±20	3	4.3	6.7	/	/	/	/	
SLB150N06T	TO-263	N	60	150	±20	3	2.7	3.3	2.7	3.3	/	/	
SLP150N06T	TO-220	N	60	150	±20	3	2.8	3.5	2.8	3.5	/	/	DC-DC Inverter
SLM150N06G	DFN5x6	N	60	150	±20	1.7	1.8	2.6	/	/	/	/	
SLP150N06G	TO-220	N	60	150	±20	1.7	2.4	3	/	/	/	/	
SLD80P06T	TO-252	P	-60	-80	±20	-1.6	16.5	19.5	18.5	22	/	/	
SLB120N08G3	TO-263	N	85	120	±20	3	4.5	5.5	/	/	/	/	BLDC BMS DC-DC PD
SLP120N08G3	TO-220	N	85	120	±20	3	4.5	5.5	/	/	/	/	
SLD15N10T	TO-252	N	100	15	±20	1.7	95	110	100	130	/	/	
SLD25N10T	TO-252	N	100	25	±20	1.5	40	50	45	50	/	/	

## ● 中低压MOSFET (MV/LV MOS)

Products	PKG	Polarity	Bvdss [V]	I <sub>b</sub> (A)	V <sub>GS</sub> (V)	V <sub>TH</sub> (V)	R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		R <sub>DS(ON)</sub> (mΩ)		Application
							@V <sub>GS</sub> =10V		@V <sub>GS</sub> =4.5V		@V <sub>GS</sub> =2.5V		
							Typ	Max	Typ	Max	Typ	Max	
SLP25N10T	TO-220	N	100	25	±20	1.5	40	50	45	55	/	/	Load, Switching, Led BLDC, Inverters
SLD30N10T	TO-252	N	100	30	±20	3	30	38	/	/	/	/	
SLP30N10T	TO-220	N	100	30	±20	3	30	38	/	/	/	/	
SLD40N10G	TO-252	N	100	40	±20	1.8	12.5	15	17	20	/	/	BLDC PD BMS DC-DC
SLM40N10G	DFN5x6	N	100	40	±20	1.8	12	14	15	19	/	/	
SLD90N10G	TO-252	N	100	90	±20	1.5	6.8	8	7.8	11.4	/	/	
SLM90N10G	DFN5x6	N	100	90	±20	1.5	6.4	7.7	8	10.5	/	/	
SLM100N10G	DFN5x6	N	100	100	±20	2	6.2	7.5	6.5	8	/	/	
SLP160N10G	TO-220	N	100	160	±25	3	3.7	4.2	/	/	/	/	
SLB160N10G	TO-263	N	100	160	±25	3	3.7	4.2	/	/	/	/	
SLD9N20T	TO-252	N	200	9	±30	1.5	220	330	/	/	/	/	Load, Switching, Led

## ● 中低压命名方式



1 公司简称

2 封装形式

P: TO-220 F: TO-220F  
H: TO-247 W: TO-3P  
D: D-Pak(TO-252)  
U: I-Pak(TO-251)  
B: D2-Pak(TO-263)  
I: I2-Pak(TO-262)  
S: SOP-8 T: TSSOP-8  
M: DFN5X6 N: DFN3X3  
L: DFN8X8  
V: SOT-23

3 MOSFET电流值  
(1-3位数字)

4 沟道极性

N: N-channel  
P: P-channel  
L: N-channel+P-channel  
D: Dual N-channel  
E: Dual P-channel

5 MOSFET电压值  
(2-3位数字)

6 芯片工艺

T: 普通Trench MOSFET  
G: Split Gate Trench MOSFET

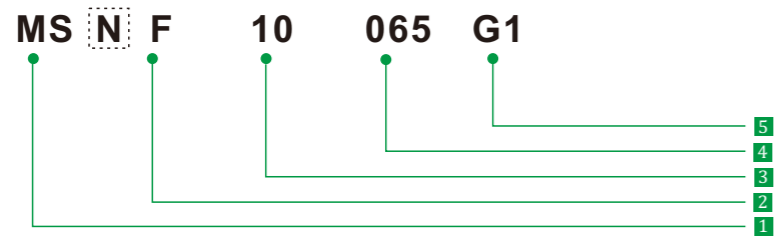
7 版本号

只有一个版本时此位为空,  
带ESD产品此位为K

## ● 碳化硅二极管 (SiC Diode)

Products	PKG	VR[V]	IF[A]	VF[V] (TYP)	Tj[°C]	Application
MSD02065G1	TO-252-2Lead	650	2	1.4	175	LED Power PFC Power Inverter Power Gold medal Power Ultra-high Power UPS Power OBC Powerd PD Power
MSP02065G1	TO-220-2Lead		2	1.4		
MS7S02065G1	SO-7		2	1.4		
MSD04065G1	TO-252-2Lead		4	1.4		
MSM04065G1	DFN5x6		4	1.4		
MSP04065G1	TO-220-2Lead		4	1.4		
MSM06065G1	DFN5x6		6	1.4		
MSL06065G1	DFN8x8		6	1.4		
MSD06065G1	TO-252		6	1.4		
MSP06065G1	TO-220-2Lead		6	1.4		
MSNP06065G1	TO-220-2Lead		6	1.45		
MSP08065G1	TO-220-2Lead		8	1.4		
MSNP08065G1	TO-220-2Lead		8	1.45		
MSP10065G1	TO-220-2Lead		10	1.4		
MSP10065G1S	TO-220-2Lead		10	1.4		
MSNP10065G1	TO-220-2Lead		10	1.45		
MSP16065G1	TO-220-2Lead		16	1.4		
MSP20065G1	TO-220-2Lead		20	1.4		
MS2H20065G1	TO-247-2Lead		20	1.4		
MS2H32065G1	TO-247-3Lead		32	1.4		
MS2H40065G1	TO-247-3Lead	40	1.4			
MS2TH60065G1	TO-247-2Lead	60	1.4			
MSD02120G1	TO-252	1200	2	1.45	1700	PVIInverter Power Charging Pile Power Solar Inverter Wind Turbine Motor Controller
MSD05120G1	TO-252		5	1.45		
MSD10120G1	TO-252		10	1.45		
MSP10120G1	TO-220-2Lead		10	1.45		
MSF10120G1	TO-220F-2Lead		10	1.45		
MSH16120G1	TO-247-2Lead		16	1.45		
MSH20120G1	TO-247-2Lead		20	1.45		
MS2H20120G1	TO-247-3Lead		20	1.45		
MS2H32120G1	TO-247-3Lead		32	1.45		
MS2TH32120G1	TO-247-2Lead		32	1.45		
MS2H40120G1	TO-247-3Lead	40	1.45			
MSH12120G1	TO-247-2Lead	1700	12	1.45		
MSH20170G1	TO-247-2Lead		20	1.45		

## ● 碳化硅二极管命名方式



1 公司简称

2 封装形式

1:2Pin

P: TO-220 F: TO-220F  
 H: TO-247 L: DFN8X8  
 D: D-Pak(TO-252)  
 U: I-Pak(TO-251)  
 B: D2-Pak(TO-263)  
 M: DFN5x6  
 7S: SO-7  
 N: 内绝缘工艺

2:3Pin 2Chip

2P: TO-220  
 2F: TO-220F 2H: TO-247  
 2B: D2-Pak 2I: I2-Pak

3:2Pin 2Chip

2TP: TO-220  
 2TW: TO-3P  
 2TH: TO-247

4:3Pin 1Chip

R: TO-220  
 RF: TO-220F RH: TO-247

3 额定电流

4 电压系数(X10)

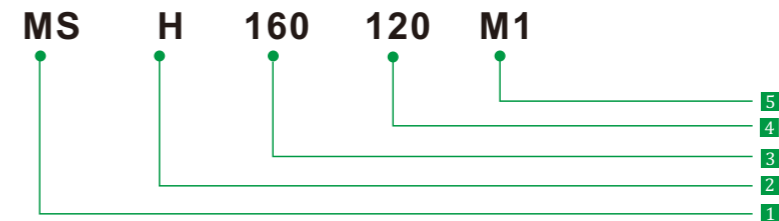
5 芯片工艺

V1: JBS G1: MPS

## ● 碳化硅MOSFET (SiC MOS)

Products	PKG	BVDSS [V]	ID[A]	RDS(ON) [R](TYP)	VTH[V]	Application
MSH060065M1	TO-247-3Lead	650	30	0.06	1.8~3.5	PV Inverter Power Solar Inverter Wind Turbine
MSK060065M1	TO-247-4Lead		30	0.06		
MSH035065M1	TO-247-3Lead		70	0.035		
MSH160120M1	TO-247-3Lead	1200	17	0.16		
MSK160120M1	TO-247-4Lead		17	0.16		
MSH080120M1	TO-247-3Lead		28	0.08		
MSK080120M1	TO-247-4Lead		28	0.08		
MSH040120M1	TO-247-3Lead		60	0.04		
MSK040120M1	TO-247-4Lead		60	0.04		
MSH025120M1	TO-247-3Lead	1700	80	0.025		
MSK025120M1	TO-247-4Lead		80	0.025		
MSB7100170M1	TO-263-7Lead		5	1.0		
MSH100170M1	TO-247-3Lead		5	1.0		
MSH045170M1	TO-247-3Lead		40	0.045		

## ● 碳化硅MOSFET命名方式



1 公司简称

2 封装形式

P: TO-220 F: TO-220F H: TO-247-3L  
 W: TO-3P D: D-Pak(TO-252)  
 U: I-Pak(TO-251)  
 B: D2-Pak(TO-263)  
 I: I2-Pak(TO-262)  
 K: TO-247-4L

3 Rds(on)数值 单位: mΩ

4 电压系数(X10)

5 芯片工艺

碳化硅材料特点

- 开关时间快, 开关损耗小
- 恢复时间短, Trr恢复时间短, 趋近于零
- 工作结温高, 工作温度可达到175°C以上
- 击穿电压高, 产品电压最高可达6000V以上