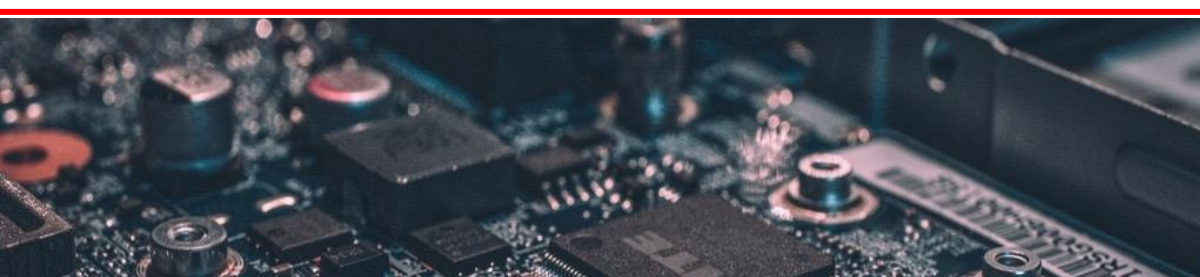




APM

A Power Microelectronics

永源微电子 (2023)



专业的集成电路制造商
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功率器件

驱动芯片

模拟芯片

充电管理

MOSFET

Driver Chip

Analog Chip

Charging IC



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一、APM 简介 (APM-brief introduction)

永源微电子，创立于 2017 年，继承于 IR(国际整流器)和世界先进的设计传承，经过数年的发展，目前在逻辑电路中：CMOS，BCD 和功率器件中：VD-Planar process, VD- Trench process, SJ, SGT-Mos、Rad-Hard-Mos 具备完整的工艺设计平台。精通 8 英寸最先进制程工艺，同时紧贴市场，根据市场的电荷参数要求设计最优质，最符合市场特性的产品，精通实际应用的可靠性控制。在众多技术的支持下，我司立足自主创新，致力于“APM(永源微电子)”自主产品品牌，在台湾，深圳，香港，无锡等地均设有研发与销售中心，目前产品远销海外，应用于各个领域。公司愿景：性能与可靠性兼备，为中小型企业提供最具性价比的优质产品！

Yongyuan Microelectronics was founded in 2017, inheriting IR (International Rectifier) and world advanced design heritage. After several years of development, it currently has a complete process design platform in logic circuits such as CMOS, BCD, and power devices such as VD Planar process, VD Trench process, SJ, SGT-Mos, and Rad-Hard-Mos. Proficient in the most advanced 8-inch manufacturing process, while closely following the market, designing the highest quality and most market specific products according to market charge parameters, and proficient in reliable control of practical applications.

With the support of numerous technologies, our company is committed to independent innovation and is committed to the "APM (Yongyuan Microelectronics)" independent product brand. We have research and development and sales centers in Taiwan, Shenzhen, Hong Kong, Wuxi, and other places. Currently, our products are exported overseas and applied in various fields.

Company Vision: Combining performance and reliability, providing the most cost-effective high-quality products for small and medium-sized enterprises!

公司分布 Company distribution

Shenzhen

The headquarters of Yongyuan Microelectronics is currently located in Shenzhen, the technology capital of China. As the operation center of Yongyuan Microelectronics, it is mainly responsible for the product preparation, quality supervision, and product technology and service in South China. At present, there are as many as 12 FAE teams in South China serving many customers in South China

Wuxi

Yongyuan Microelectronics Research and Development Center is located in the beautiful Wuxi, Wuxi has up to 25 people research and development team.

Taiwai

Yongyuan Microelectronics has two research and development centers located in Hsinchu, Taiwan, as one of the world's semiconductor centers, has the world's most advanced manufacturing process, in order to rely on the forefront of products, Yongyuan Microelectronics has set up a 15-person research and development team in Taiwan, committed to the latest manufacturing process exploration and research

Hangzhou

Yongyuan Microelectronics East China Branch, located in the beautiful West Lake, focus on the East China market product service sales.

安徽/中山生产基地 Anhui/Zhongshan production base

100亩，长期永久厂区




5000平米临时厂区






一、逻辑器件 Logic Device

、通用充电管理芯片 Universal charge management chip

型号 Model	最大输入电压 Max Input voltage	浪涌电压 Surge Voltage	最大充电电流 Max charge current	待机功耗 Stand-by power consumption	OVP 功能 OVP	过温保护 OTP	状态 State	封装 Package
APM4054A	6V	9V	800mA		有/YES	有/YES	量产/MP	SOT23-5L SOT89-5L
APM4054B	6V	9V	600mA		有/YES	有/YES	量产/MP	SOT23-5L SOT89-5L
APM4057A	6V	9V	800mA		有/YES	有/YES	量产/MP	SOT23-6L
APM4056A	6V	9V	1.5A		有/YES	有/YES	量产/MP	SOP-8L
APM4056B	6V	9V	800mA		有/YES	有/YES	量产/MP	SOP-8L
APM4154A	30V	32V	800mA		有/YES	有/YES	量产/MP	SOT23-5L DFN2*—6L
APM4156A	30V	32V	1.5A		有/YES	有/YES	量产/MP	SOP-8L DFN2*—6L

、驱动芯片 Driver Chip

型号 Model	最大输入电压 Max Input voltage	替换物料 Replacement materia	高侧电流 High side current	封装 Package	状态 State
APM2106A	600V	IRF2106	1.7A	SOP-8L	量产/MP
APM2107A	18V	UCC27524	5A	SOP-8L	量产/MP
APM2108A	20V	NCP81074AM	10A	DFN2*2-8L	样品/Sample
APM2109A	105V	HIP4080	2.5A	SOP20L	量产/MP
APM2110A	105V	HIP4081	2.5A	SOP20L	量产/MP
APM2111A	100V	ISL2100	2A	DFN3x3-10	样品/Sample
APM2112A	150V	ISL2101	2A	DFN3x3-10	样品/Sample

二、场效应管（MOSFET）

1、前装汽车空调组件（乘用车）Automotive Air Conditioner components (Passenger car)



汽车鼓风机模块，应用场景为线性开关电源，对 MOS 的芯片热阻要求非常高，永源微电子针对有刷线性驱动方案，



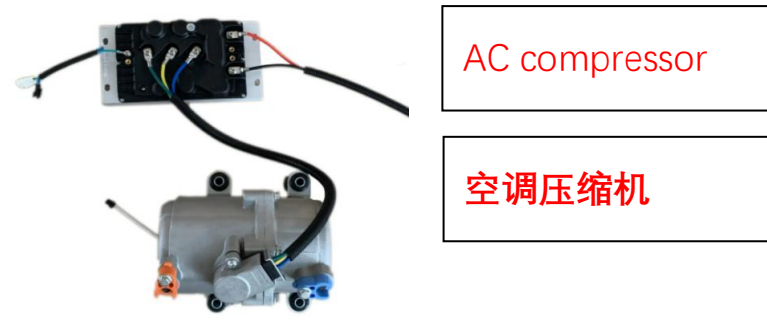
推出产品 AP100N08CMP，符合鼓风机行业的 5A 5B 可靠性测试。同时针对新一代的无刷鼓风机应用模块，永源微电子联合国民技术，整合推出 40V 0.75mR 的应用产品，以及小功率瓦数的 AP10G04DF 针对低成本市场。

linear drive solution, launched the product AP100N08CMP, in line with the blower industry 5A 5B reliability test. At the same time, for the new generation of brushless blower application modules, Yongyuan Microelectronics united with national technology to integrate the launch of 40V 0.75MR application products, and low-watt-hour AP10G04DF for the low-cost market.

型号 Model	工艺 Technology	参数 Parameter	EAS (mJ)	封装 Package	状态 State	应用 Application
AP100N08CMP	Planar	100A 80V 6.8mΩ	1054	TO247-3L	量产/MP	有刷线性
AP200N04NF	SGT 5	200A 40V 0.75mΩ	845	PDFN5*6-8L	量产/MP	无刷电机 /BLDC
AP10G04DF	Trench	40V N+P	2000	PDFN3*3-8L	量产/MP	无刷电机 /BLDC

随着新能源汽车的兴起，对空调压缩机部分电路，从原本的有刷电机改为全新的无刷电机，针对当前状态下大功率压缩机电机控制器。永源微电子推出如下产品。

With the rise of new energy vehicles, the air conditioning compressor part of the circuit, from the original brush motor to a new brushless motor, for the current state of high-power compressor motor controller. Yongyuan Microelectronics launches the following products.



空调压缩机电路传统结构使用 Lpak5*6-8L/DFN5*6-8L 封装，导致生产过程中需要在背部添加大量的覆铜，也有使用 60V 多管并联电路，进行生产设计。导致 PCBA 拥挤，针对此现象，永源微电子针对行业，提供完备的解决方案。使用 TOLLA 优化解决 Lpak5*6 高度依赖 PCBA 散热的问题，提升单管电流能力，解决多管并联电路的缺陷问题。

The traditional structure of the air conditioning compressor circuit uses Lpak5*6-8L/DFN5*6-8L package, which leads to the need to add a large amount of copper coating in the back during the production process, and also uses 60V multi-tube parallel circuits for production design. Resulting in PCBA congestion, in response to this phenomenon, Yongyuan Microelectronics for the industry, to provide a complete solution. TOLLA optimization is used to solve the problem that Lpak5*6 is highly dependent on PCBA heat dissipation, improve the current capacity of single tube, and solve the defect of multi-tube parallel circuit.

型号 Model	工艺 Technology	参数 Parameter	封装 Package	状态 State	应用 Application
AP300N05TLG5	SGT 5	300A 45V 1mΩ	TOLL-8L	量产/MP	24V controller
AP300N06TLG2	SGT 2	300A 60V 1.2mΩ	TOLL-8L	量产/MP	36V controller
AP200N10TLG2	SGT 2	200A 100V 3.6mΩ	TOLL-8L	量产/MP	36V controller
AP280N10TLG2	SGT 2	200A 100V 1.8mΩ	TOLL-8L	量产/MP	36V controller



2、前装汽车车灯（乘用车）Car Lights (Passenger car)



型号 Model	工艺 Technology	参数 Parameter	封装 Package	状态 State
APE50N06NF	SGT 2	50A 60V 10mΩ	PDFN5*6-8L	量产/MP
APE65N06NF	SGT 2	65A 60V 6.5mΩ	PDFN5*6-8L	量产/MP
APE80N06NF	SGT 2	80A 60V 4.5mΩ	PDFN5*6-8L	量产/MP

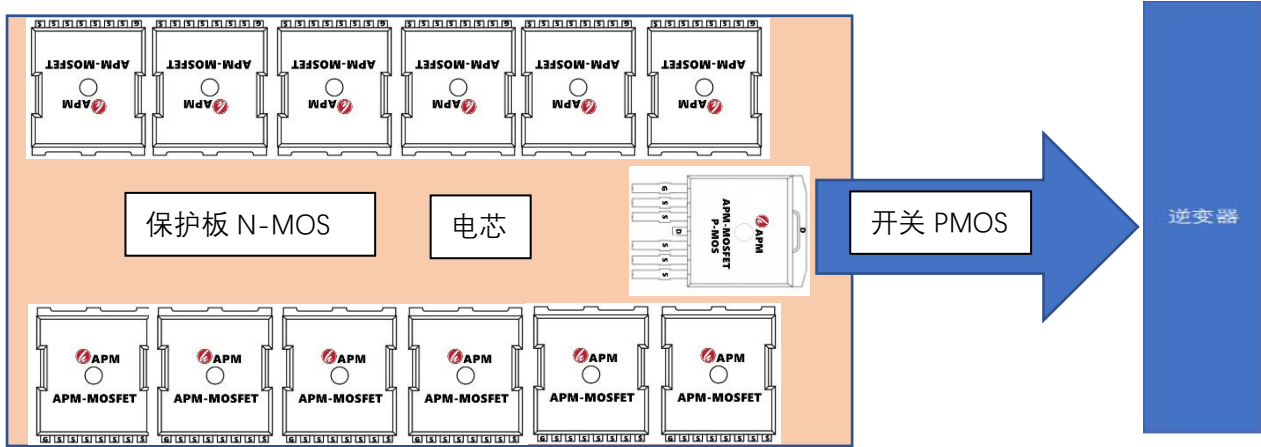


永源微电子通过 AECQ101 系统管理，采用 SGT 第二代制程工艺，和先进的封装技术，实现 MOS 系列的高可靠性工艺。满足热源处的 AECQ101 的温度范围要求，同时采用 SGT 制程工艺，MOS 本身的开关损耗很低，特别适合作用于高频开关的 LED 车灯电路

Through AECQ101 system management, Yongyuan Microelectronics adopts SGT second-generation process technology and advanced packaging technology to achieve high reliability process of MOS series. Meet the temperature range requirements of AECQ101 at the heat source, and adopt SGT process technology, MOS itself has low switching loss, especially suitable for high frequency switching LED lamp circuit



3、锂电保护（便携式储能） Lithium protection (Portable Energy storage)



型号 Model	封装工艺 Package Technology	封装 Package	温度等级 temperature grade	参数 Parameter	量产时间 MP DATE
AP300N04TLG5	铝线 AL line	TOLL-8A	150°C	40V 1.0mΩ 1.8V	2021
AP420N04TLG5	Clip	TOLL-8A	150°C	40V 0.75mΩ 1.8V	2022
AP600N04TLG5	Clip	TOLL-8A	150°C	40V 0.55mΩ 3.0V	2023
AP300N06TLG2	铝线 AL line	TOLL-8A	150°C	60V 1.2mΩ 3.0V	2022
AP420N06TLG2	Clip	TOLL-8A	150°C	60V 1.0mΩ 3.0V	2022

锂电保护(Lithium protection)MOSFET

针对便携式储能 24V 系统，永源微电子推出第五代低电容 SGT 平台在有限的面积上，
通过 Clip 封装制程工艺实现低于 1mR 的导通阻抗

For portable energy storage 24V system, Yongyuan Microelectronics launched the fifth generation of low capacitance SGT platform in a limited area,

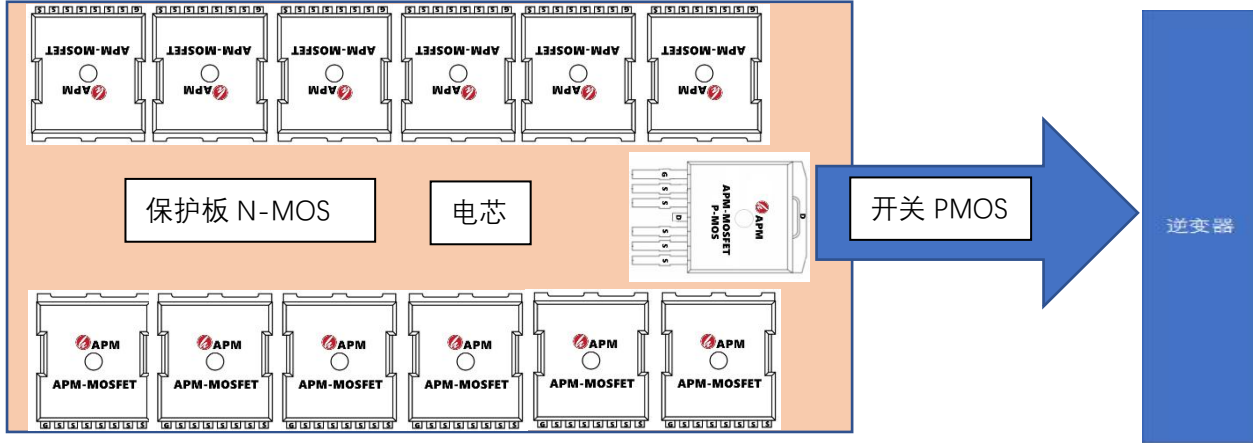
The on-impedance of less than 1mR is achieved through the Clip package process

型号 Model	封装 Package	参数 Parameter	量产时间 MP DATE
AP80P04NF	PDFN5*6-8L	-40V 7.0mΩ 1.8V	2021
AP100P04NF	PDFN5*6-8L	-40V 4.5mΩ 1.8V	2021
AP180P04T6	TO263-6L	-40V 1.98mΩ 3.0V	2021
AP80P06T	TO263-3L	-60V 9.0mΩ 1.8V	2021

防反接(Anti-reverse connection) Mosfet



4、锂电保护（光伏储能/家庭储能/分布式储能）Lithium protection (Photovoltaic energy storage/Home Energy storage/distributed energy storage)



锂电保护(Lithium protection) MOSFET

消费级型号 Consumer Model	工业级型号 Industrial grade Model	封装 Package	温湿度 Humiture	等级选择 Rank Selection	参数 Parameter	量产时间 MP DATE
AP300N08TLG2	APH300N08TLG2	TOLL-8A	175℃	消费级/工业级	85V 1.6mΩ 3.0V	2021.3
AP400N08TLG2	APH400N08TLG2	TOLL-8A	175℃	消费级/工业级	85V 1.0mΩ 3.0V	2022.4
AP280N10TLG2	APH280N10TLG2	TOLL-8A	175℃	消费级/工业级	100V 2.0mΩ 3.0V	2021.4
AP320N10TLG2	APH320N10TLG2	TOLL-8A	175℃	消费级/工业级	100V 1.3mΩ 3.0V	2022.2

防反接(Anti-reverse connection) Mosfet

型号 Model	封装 Package	温度等级 Humiture	参数 Parameter	量产时间 MP DATE
AP120P06T	TO263-3L	150℃	-60V 5.5mΩ 2.0V	2022.4
AP150P06T	TO263-3L	150℃	-60V 3.7mΩ 2.0V	2022.1
AP100P08T	TO263-3L	150℃	-80V 12mΩ 2.0V	2022.1
AP120P08T	TO263-3L	150℃	-80V 9.5mΩ 2.0V	2023.9
AP80P10T	TO263-3L	150℃	-100V 19mΩ 1.6V	2022.4
AP100P10T	TO263-3L	150℃	-96V 12mΩ 2.0V	2022.4

永源微电子针对光伏储能行业，提供多种等级产品选择，分别工业级和消费级采用 SGT 第二代高可靠性制程工艺，和高端可靠性封装工艺。同时针对多管并联的超高可靠性，优化产品开启电压范围为 $\pm 0.1V$ 。

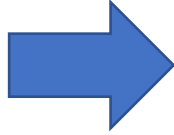
For the photovoltaic energy storage industry, Yongyuan Microelectronics provides a variety of product choices, respectively industrial grade and consumer grade SGT second-generation high-reliability process, and high-end reliability packaging process. At the same time, for the ultra-high reliability of multi-tube parallel, the product is optimized to open voltage range of $\pm 0.1V$.





5、锂电保护（动力电池储能） Lithium protection (power battery energy storage)

48V-72V 系统



型号 Model	封装 Package	温湿度 humiture	参数 Parameter	量产时间 MP DATE	电池电压 Cell Voltage	电池串数 Number of batteries
AP300N08TLG2	TOLL-8A	150°C	85V 1.6mΩ 3.0V	2021	48V-60V	14-16 串
AP400N08TLG2	TOLL-8A	150°C	85V 1.0mΩ 3.0V	2021	48V-60V	14-16 串
AP280N10TLG2	TOLL-8A	150°C	100V 2.0mΩ 3.0V	2021	60V-84V	17-24 串
AP320N10TLG2	TOLL-8A	150°C	100V 1.3mΩ 3.0V	2021	60V-84V	17-24 串
AP260N12TLG1	TOLL-8A	150°C	120V 3.7mΩ 3.0V	2021	84V-117V	25-28 串
AP280N12TLG1	TOLL-8A	150°C	120V 2.8mΩ 3.0V	2021	84V-117V	25-28 串
AP260N15TLG1	TOLL-8A	150°C	150V 5.2mΩ 3.0V	2021	117V-120V	28-32 串
AP300N15TLG1	TOLL-8A	150°C	150V 3.5mΩ 3.0V	2021	117V-120V	28-32 串

防反接(Anti-reverse connection) Mosfet

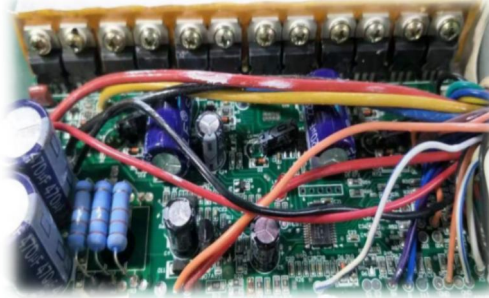
型号 Model	封装 Package	温度等级 Humiture	参数 Parameter	量产时间 MP Date
AP120P06T	TO263-3L	150°C	-60V 5.5mΩ 2.0V	2022.4
AP150P06T	TO263-3L	150°C	-60V 3.7mΩ 2.0V	2022.1
AP100P08T	TO263-3L	150°C	-80V 12mΩ 2.0V	2022.2
AP120P08T	TO263-3L	150°C	-80V 9.5mΩ 2.0V	2023.9
AP80P10T	TO263-3L	150°C	-100V 19mΩ 1.6V	2022.4
AP100P10T	TO263-3L	150°C	-96V 12mΩ 2.0V	2022.4
AP40P15T	TO263-3L	150°C	-150V 45mΩ 2.0V	2023.9

72-96V 系统





6、电机控制（72-110V 动力电机） Motor control (72-110V power motor)



传统结构，结构臃肿体积庞大，电流能力有限。

Traditional structure, bulky structure, large volume, limited current capacity.

新结构，结构简单体积小，大电流能力强，可以多管并联实现更大扭力。

The new structure, simple structure, small size, strong current capacity, can be multi-tube parallel to achieve greater torque.



型号 Model	封装 Package	温湿度 Humiture	参数 Parameter	量产时间 MP DATE	控制器电压 Controller voltage
AP300N10TLG1	TOLL-8A	150℃	100V 1.6mΩ 3.0V	2021	60V-72V
AP320N10TLG2	TOLL-8A	150℃	100V 1.3mΩ 3.0V	2022	60V-72V
AP260N15TLG1	TOLL-8A	150℃	150V 5.2mΩ 3.0V	2022	72V-96V
AP300N15TLG1	TOLL-8A	150℃	150V 3.5mΩ 3.0V	2022	72V-96V

永源微电子通过使用第一代 SGT 工艺优化产品沟道深度，使得产品在电机相短能力上得到明显的提升，进一步提升产品的短路能力，和扭矩能力，以及更大的转速。

By using the first generation SGT process to optimize the channel depth of the product, Yongyuan Microelectronics has significantly improved the short-circuit capability of the product, further improved the short-circuit capability, and torque capability of the product, as well as greater speed.

适用范围 Range of application

电摩控制器

Electric motorcycle controller

四轮车控制器

Quadricycle controller

电叉车控制器

Electric forklift controller

物流车控制器

Logistics vehicle controller



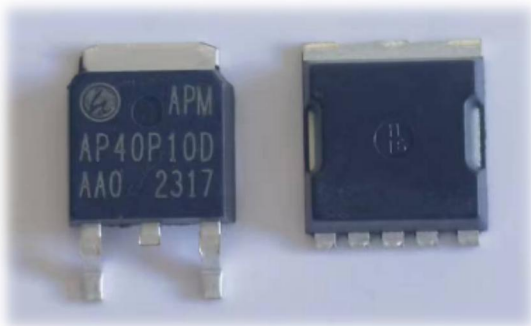


7、电机控制（超高功率园林工具） Motor control (Ultra High power Garden tools)

随着手持园林工具的功率越来越大的需求和小型化的需求传统 5*6 封装受限于封装工艺的限制，无法实现更大的芯片封装，永源微电子针对此情况推出 STOLL 系列产品。

With the increasing demand for the power of hand-held garden tools and the need for miniaturization, the traditional 5*6 package is limited by the packaging process and cannot achieve a larger chip package, Yongyuan Microelectronics launched STOLL series products for this situation.

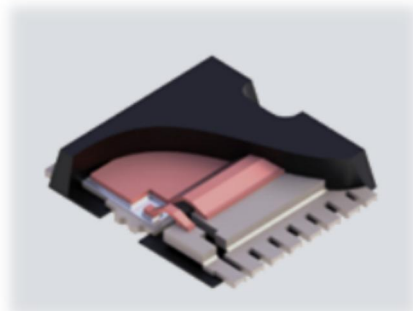
STOLL 封装尺寸对比 STOLL package size comparison



对比 Comparison TO252-3L



对比 Comparison PDFN5X6-8L



永源微电子采用 SGT 第五代和 SGT 第二代 60V 制程工艺平台，使得产品在小型化的基础上还能实现更大的电流，同时为了更好解决寄生电阻阻抗，特意采用了 Clip 制程工艺平台，让焊线的电阻无限趋向于 0。

Yongyuan Microelectronics adopts SGT fifth-generation and SGT second-generation 60V process platform, which enables the product to achieve greater current on the basis of miniaturization, and at the same time, in order to better solve the parasitic resistance impedance, it specially adopts Clip process platform, so that the resistance of the welding wire tends to 0 indefinitely.

型号 Model	封装 package	温湿度 Humiture	参数 Parameter	量产时间 MP Date	理论单管实际最大过流 Theoretical maximum overcurrent
AP380N04SLG5	STOLL-6A	150℃	40V 0.75mΩ 3.0V	2023.8	200A
AP480N04SLG5	STOLL-6A	150℃	40V 0.55mΩ 3.0V	2023.12	272A
AP300N06SLG2	STOLL-6A	150℃	65V 1.0mΩ 3.0V	2023.8	150A
AP420N06SLG2	STOLL-6A	150℃	65V 0.75mΩ 3.0V	2023.12	200A
AP380N07TLG2	STOLL-6A	150℃	70V 1.0mΩ 3.0V	2024.3	150A
AP300N08SLG2	STOLL-6A	150℃	85V 1.6mΩ 3.0V	2024.3	100A
AP280N10SLG2	STOLL-6A	150℃	100V 1.8mΩ 3.0V	2023.3	95A



8、电机控制（高功率园林工具）Motor control (High power garden tools)



随着园林工具的兴起，对于传统 12V 电池已经不足，根据目前永源微电子综合市场的需求来看，主要产品系列分为 40V 85V 120V 三个电压居多，针对该市场需求，永源微电子整理下如下产品介绍该细分行业产

With the rise of garden tools, the traditional 12V battery has been insufficient, according to the current demand of Yongyuan microelectronics comprehensive market, the main product series is divided into

The three voltages of 40V 85V 120V are mostly, in view of the market demand, Yongyuan Microelectronics collates the following products to intervene in the industry segment products.

沟槽	型号 Model	参数 Parameter	封装 Package	应用 Application
N	APG120N04NF	120A 40V 1.6mΩ	PDFN5*6-8L	12V-24V 电机 Motor
N	APG180N04NF	180A 40V 1.1mΩ	PDFN5*6-8L	12V-24V 电机 Motor
N	AP150N06NF	150A 60V 1.98mΩ	PDFN5*6-8L	12-36V 电机 Motor
N	AP200N06NF	200A 60V 1.0mΩ	PDFN5*6-8L	12-36V 电机 Motor
N	AP180N08P	180A 85V 2.8mΩ	TO220-3L	12-72V 电机 Motor
N	AP240N08P	240A 85V 1.9mΩ	TO220-3L	12-72V 电机 Motor
N	AP240N12P	240A 120V 4.2mΩ	TO220-3L	12V-96V 电机 Motor

典型客户 Typical customer





9、电机控制（中功率园林工具） Motor control (Medium power garden tools)



对于中功率产品来说，性价比是客户首要选择，因此在这个基础上永源微电子，通过使用 trench 工艺进行整合成本，覆盖 12V-100V 电压段园林工具

For medium power products, cost performance is the customer's first choice, so on this basis, Yongyuan Microelectronics integrates the cost by using the trench process to cover the 12V-100V voltage range of garden tools

沟槽 Type	APM 型号 Model	参数 Parameter	封装 Package	应用 Application
N	AP85N03NF	85A 30V 2.1mΩ	PDFN5*6-8L	12V 电机 Motor
N	AP120N03NF	120A 30V 1.5mΩ	PDFN5*6-8L	12V 电机 Motor
N	AP150N03D	150A 30V 2.2mΩ	TO252-3L	12V 电机 Motor
N	AP180N03D	150A 30V 2.1mΩ	TO252-3L	12V 电机 Motor
N	AP140N04NF	140A 40V 2.2mΩ	PDFN5*6-8L	12-24V 电机 Motor
N	AP90N06D	90A 60V 5.8mΩ	TO252-3L	12-36V 电机 Motor
N	AP120N07D	120A 70V 5.8mΩ	TO252-3L	12-36V 电机 Motor
N	AP100N08D	100A 85V 5.5mΩ	TO252-3L	12-72V 电机 Motor
N	AP90N08NF	90A 85V 4.5mΩ	PDFN5*6-8L	12-72V 电机 Motor

针对上述产品，永源微电子推出的系列化产品，主要针对小功率的共板，当客户定义为 252 封装的时候，小功率段可以使用单个产品进行量产，功率大之后，可以使用 12 管并联的方案，成本最优，针对客户群体为性能足够追求性价比的整体方案。

For the above products, the series of products launched by Yongyuan Microelectronics, mainly for low-power common board, when the customer defines the 252 package, the small power segment can use a single product for mass production, after the power is large, you can use the 12-tube parallel scheme, the cost is optimal, for the customer group to pursue the overall solution of cost-effective performance.



10、电机控制（高速电机：吸尘器和高速吹风筒） Motor control (high speed motor: vacuum cleaner and high speed blower)



对于高速类电机，永源微推出超低电容和集成快恢复 FRDmos 匹配该市场物料

For the high-speed motor class, Yongyuan Micro introduces ultra-low capacitance and integrated fast recovery FRDmos to match the materials in this market

AP5N50BD

AP100N04NF



AP5N50BD

500V N-Channel Enhancement Mode MOSFET

Electrical Characteristics (T_J=25°C, unless otherwise noted)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0V, I _D = 250μA	500	550	—	V
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 650V, V _{GS} = 0V, T _J = 25°C	—	—	1	μA
IGSS	Gate-Source Leakage	V _{GS} = ±30V	—	—	±100	nA
VGS(th)	Gate-Source Threshold Voltage	V _{DS} = V _{GS} , I _D = 250μA	2.0	3.0	4.0	V
RDS(on)	Drain-Source On-Resistance (Note3)	V _{GS} = 10V, I _D = 3.5A	—	2.4	3.0	Ω
Ciss	Input Capacitance	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	310	—	pF
Coss	Output Capacitance	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	39	—	pF
Crss	Reverse Transfer Capacitance	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	6	—	pF
Qg	Total Gate Charge	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	8	—	nC
Qgs	Gate-Source Charge	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	1.2	—	nC
Qgd	Gate-Drain Charge	V _{DS} = 0V, V _{GS} = 25V, f = 1.0MHz	—	5	—	nC
t _{d(on)}	Turn-on Delay Time	V _{DS} = 250V, I _D = 3A, R _{θJA} = 25°C	—	7.8	—	ns
t _r	Turn-on Rise Time	V _{DS} = 250V, I _D = 3A, R _{θJA} = 25°C	—	33	—	ns
t _{d(off)}	Turn-off Delay Time	V _{DS} = 250V, I _D = 3A, R _{θJA} = 25°C	—	23	—	ns
t _f	Turn-off Fall Time	V _{DS} = 250V, I _D = 3A, R _{θJA} = 25°C	—	59	—	ns
IS	Continuous Body Diode Current	T _J = 25 °C	—	—	3.0	A
ISM	Pulsed Diode Forward Current	T _J = 25°C, I _{AS} = 2.4A, V _{DD} = 50V, R _G = 25 Ω, Starting T _J = 25 °C	—	—	12	A
VSD	Body Diode Voltage	T _J = 25°C, I _{SD} = 3A, V _{GS} = 0V	—	—	1.4	V
t _{rr}	Reverse Recovery Time	V _{GS} = 0V, I _S = 3A, di/dt = 100A/μs	—	80	—	ns
Q _{rr}	Reverse Recovery Charge	V _{GS} = 0V, I _S = 3A, di/dt = 100A/μs	—	1.8	—	μC

Note :

- The data tested by surface mounted on a 1 inch2 FR-4 board with 20Z copper.
- The EAS data shows Max. rating . IAS = 2.4A, VDD = 50V, RG = 25 Ω, Starting T_J = 25 °C
- The test condition is Pulse Test: Pulse width ≤ 300μs, Duty Cycle ≤ 1%
- The power dissipation is limited by 150°C junction temperature
- The data is theoretically the same as ID and IDM , in real applications , should be limited by total power dissipation.



AP100N04NF

40V N-Channel Enhancement Mode MOSFET

Electrical Characteristics (T_J=25°C, unless otherwise noted)

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
BVDSS	Drain-Source Breakdown Voltage	V _{GS} = 0V, I _D = 250μA	40	44	—	V
RDS(ON)	Static Drain-Source On-Resistance ²	V _{GS} = 10V, I _D = 20A	—	2.1	3.2	mΩ
VGS(th)	Gate Threshold Voltage	V _{DS} = 4.5V, I _D = 15A	—	2.7	5.3	mΩ
VGS(th)	Gate Threshold Voltage	V _{GS} = V _{DS} , I _D = 250μA	1.2	1.7	2.5	V
IDSS	Drain-Source Leakage Current	V _{DS} = 40V, V _{GS} = 0V, T _J = 25°C	—	—	1	μA
IDSS	Drain-Source Leakage Current	V _{DS} = 40V, V _{GS} = 0V, T _J = 55°C	—	—	5	μA
IGSS	Gate-Source Leakage Current	V _{GS} = ±20V, V _{DS} = 0V	—	—	±100	nA
gfs	Forward Transconductance	V _{DS} = 5V, I _D = 20A	—	75	—	S
R _g	Gate Resistance	V _{GS} = 0V, V _{DS} = 0V, f = 1MHz	—	1.5	—	Ω
Q _g	Total Gate Charge (4.5V)	V _{DS} = 20V, V _{GS} = 4.5V, I _D = 20A	—	22.7	—	nC
Qgs	Gate-Source Charge	V _{DS} = 20V, V _{GS} = 4.5V, I _D = 20A	—	7.5	—	nC
Qgd	Gate-Drain Charge	V _{DS} = 20V, V _{GS} = 4.5V, I _D = 20A	—	5.5	—	nC
t _{d(on)}	Turn-On Delay Time	V _{DS} = 20V, V _{GS} = 10V, R _{θJA} = 30°C, I _D = 20A	—	10	—	ns
t _r	Rise Time	V _{DS} = 20V, V _{GS} = 10V, R _{θJA} = 30°C, I _D = 20A	—	5	—	ns
t _{d(off)}	Turn-Off Delay Time	V _{DS} = 20V, V _{GS} = 10V, R _{θJA} = 30°C, I _D = 20A	—	33	—	ns
t _f	Fall Time	V _{DS} = 20V, V _{GS} = 10V, R _{θJA} = 30°C, I _D = 20A	—	6.5	—	ns
Ciss	Input Capacitance	V _{DS} = 20V, V _{GS} = 0V, f = 1MHz	—	2600	—	pF
Coss	Output Capacitance	V _{DS} = 20V, V _{GS} = 0V, f = 1MHz	—	899	—	pF
Crss	Reverse Transfer Capacitance	V _{DS} = 20V, V _{GS} = 0V, f = 1MHz	—	71	—	pF
IS	Continuous Source Current ^{1,5}	V _{GS} = V _{DS} = 0V, Force Current	—	—	30	A
VSD	Diode Forward Voltage ²	V _{GS} = 0V, I _S = 1A, T _J = 25°C	—	—	1	V

Note :

- The data tested by surface mounted on a 1 inch 2 FR-4 board with 20Z copper.
- The data tested by pulsed , pulse width ≤ 300μs , duty cycle ≤ 2%
- The EAS data shows Max. rating . The test condition is VDD = 32V, VGS = 10V, L = 0.1mH, IAS = 54A
- The power dissipation is limited by 150°C junction temperature
- The data is theoretically the same as I D and I DM , in real applications , should be limited by total power dissipation.

沟槽 type	APM 型号 Model	参数 Parameter	Ciss (PF)	封装 Package	应用 Application
N	AP70N03NF	70A 30V 3.5mΩ	2295	DFN5*6	12V 吸尘器 dust collector
N	AP100N04NF	100A 40V 2.5mΩ	2648	DFN5*6	24V 吸尘器 dust collector
N	AP5N50BD	5.0A 500V 2.4Ω	310	TO-252	220V 吹风机 hair dryer
N	APJ7N65D	7.0A 650V 1.0Ω	246	TO-252	220V 吹风机 hair dryer
N	AP6N40D	6.0A 400V 0.8Ω	700	TO-252	110V 吹风机 hair dryer



11、电机控制（无刷风扇） Motor control (brushless fan)



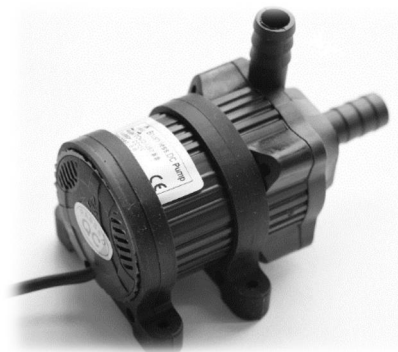
沟槽 type	APM 型号 Model	参数 Parameter	封装 Package	应用领域 Application
N+P	AP6G03LI	6.8A 30V 18mΩ/-5.8A -30V 42mΩ	SOT23-6L	机箱散热器风扇 Chassis radiator fan
N+P	AP4606A	6.8A 30V 18mΩ/-5.8A -30V 45mΩ	SOP-8L	12V-18V 无刷落地扇/吊扇 Brushless floor/ceiling fan
N+P	AP6G03S	10A 30V 20mΩ/-7.8A -30V 39mΩ	SOP-8L	12V-18V 无刷落地扇/吊扇 Brushless floor/ceiling fan
N+P	AP10G03S	12A 30V 8.5mΩ/-9.8A -20V 16mΩ	SOP-8L	12-18V 无刷落地扇/吊扇 Brushless floor/ceiling fan
N+P	AP6G04LI	6.3A 40V 30mΩ/-6.1A -40V 60mΩ	SOT23-6L	24V 无刷落地扇/吊扇 Brushless floor/ceiling fan
N+P	AP6G04S	6.3A 40V 30mΩ/-6.1A -40V 62mΩ	SOP-8L	24V 无刷落地扇/吊扇 Brushless floor/ceiling fan
N+P	AP10G04S	9.8A 40V 17.5mΩ/-7.5A -40V 38mΩ	SOP-8L	24V 无刷落地扇/吊扇 Brushless floor/ceiling fan

无刷类 N+P 风扇方案，霍尔系列和 MCU 驱动系列，永源微电子针对小功率市场推出的系列化产品。性价比高，综合解决方案，涵盖小型化的 SOT23-6L 和小型化的 SOP-8 系列产品。

Brushless N+P fan solution, Hall series and MCU driver series, Yongyuan Microelectronics for the small power market launched a series of products. Cost-effective, comprehensive solution covering the miniaturized SOT23-6L and the miniaturized SOP-8 series.



12、电机控制（无刷水泵） Motor control (brushless water pump)

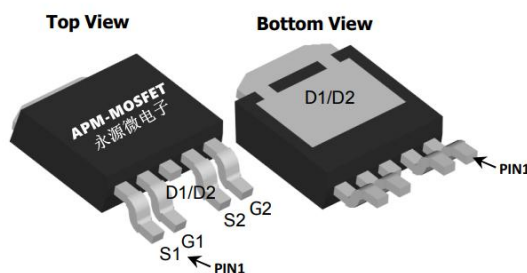


随着电气化的普及，传统有刷水泵逐渐被无刷水泵给取代，根据客户水泵电机应用，可以分为两大类，低压楼层增压泵，12-72V 电池电压灌溉泵，以及现在最新的太阳能泵。

针对该市场应用，永源微电子整合了低压的 N+P 结构产品，和增压泵的高压高浪涌产品。参考如下

With the popularity of electrification, traditional brush pumps are gradually replaced by brushless pumps, which can be divided into two categories according to customer pump motor applications, low-voltage floor booster pumps, 12-72V battery voltage irrigation pumps, and now the latest solar pumps.

沟槽 type	APM 型号 Model	参数 Parameter	封装 Package	应用 Application
N+P	AP25G03GD	25A 30V 15mΩ/-24A -30V 25mΩ	TO252-4L	12V 鱼缸水泵 Fish tank pump
N+P	AP25G04GD	28A 40V 18mΩ/-25A -40V 32mΩ	TO252-4L	24V 楼层增压泵 booster pump
N+P	AP20G06GD	25A 60V 32mΩ/-19A -30V 70mΩ	TO252-4L	24V 楼层增压泵 booster pump
N	AP120N08P	120A 85V 4.2mΩ	TO220-3L	24-60V 灌溉泵 irrigation pump
N	AP70N10P	70A 100V 18mΩ	TO220-3L	24-72V 灌溉泵 irrigation pump
N	AP140N10P	140A 100V 4.6mΩ	TO220-3L	24-72V 灌溉泵 irrigation pump
N	AP150N10P	150A 100V 4.2mΩ	TO220-3L	24-72V 灌溉泵 irrigation pump
N	AP120N15P	120A 150V 9.5mΩ	TO220-3L	24-72V 太阳能泵 Solar-powered pump



TO252-4L 封装，具备良好的散热系数，在应对小功率无刷电机中具备很好的性能和可靠性，同时兼顾了成本价格。
The TO252-4L package, with good heat dissipation coefficient, has good performance and reliability in dealing with small power brushless motors, while taking into account the cost price.



13、电机控制（步进电机/工业自动化） Motor Control (Stepper Motor/Industrial Automation)



传统步进电机市场，应用场景分为几个领域：工业自动化，舞台灯光等。由于步进电机效率低，导致对 MOS 的开关损耗上比一般传统的 FOC 来得更加大，因此对 MOS 的芯片尺寸是具备很高要求。一些大功率的 步进电机控制器都要使用风扇进行吹风散热，或者加大散热器进行散热。面对此场景，永源微电子推出 SGT 第一代 150V 平台来实现无风扇散热的效果

The traditional stepper motor market, application scenarios are divided into several areas: industrial automation, stage lighting, etc. Due to the low efficiency of the stepper motor, the switching loss of MOS is greater than that of the conventional FOC, so the chip size of MOS is very high. Some high-power stepper motor controllers have to use fans for heat dissipation, or increase the heat sink for heat dissipation. Faced with this scenario, Yongyuan Microelectronics launched the SGT first-generation 150V platform to achieve fanless heat dissipation

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	替换料号 Replacement Model	工艺 Technology
AP40N10P	40A 100V 18mΩ	2.0-4.0V	TO220-3L	量产/MP	IRF540/华微 60N10	SGT
AP70N10P	70A 100V 16mΩ	2.0-4.0V	TO220-3L	量产/MP	IRF540/华微 60N10	沟槽/Trench
AP70N10HD	70A 100V 16mΩ	2.0-4.0V	TO252-3L	量产/MP		沟槽/Trench
AP30N15HD	30A 150V 65mΩ	2.0-4.0V	TO252-3L	量产/MP		SGT
AP30N15P	30A 150V 65mΩ	2.0-4.0V	TO252-3L	量产/MP		SGT
AP30N15NF	30A 150V 65mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP		SGT
AP90N15P	90A 150V 17mΩ	2.0-4.0V	TO220-3L	量产/MP	无风扇应用	SGT
AP90N15D	90A 150V 17mΩ	2.0-4.0V	TO252-3L	量产/MP	无风扇应用	SGT
AP90N15NF	90A 150V 17mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	无风扇应用	SGT
AP640P	18A 200V 150mΩ	2.0-4.0V	TO220-3L	量产/MP	IRF640	平面/Planar
AP30N20P	30A 200V 100mΩ	2.0-4.0V	TO220-3L	量产/MP		平面/Planar
AP40N20P	40A 200V 52mΩ	2.0-4.0V	TO220-3L	量产/MP		平面/Planar

永源微电子专注于提供无刷电机小型化和多种定制化综合解决方案，擅长于解决多种小型化和低成本综合解决方案，为众多无刷电机客户提供有质量保证的综合产品。

Yongyuan Microelectronics focuses on providing brushless motor miniaturization and a variety of customized integrated solutions, and is good at solving a variety of miniaturization and low-cost integrated solutions, providing comprehensive products with quality assurance for many brushless motor customers.



14、逆变器（车载逆变器 500-1000W） Inverter (vehicle inverter 500-1000W)



传统车载逆变器市场，功率最大不超过 1000W，多半采用传统的方波算法，结合低频的方案来实现，针对方波和低频应用，永源微电子推出，传统的 Trench 1 代工艺进行补充，以及后级的高压平面产品进行匹配。

The traditional vehicle inverter market, the power maximum does not exceed 1000W, most of the use of traditional square wave algorithm, combined with low-frequency solutions to achieve, for square wave and low-frequency applications, Yongyuan Microelectronics launched, the traditional Trench 1 generation process to supplement, and the post-stage high-voltage plane products to match.

初级升压 Front-end Boost

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	替换型号
AP150N04HP	150A 40V 2.8mΩ	2.0-4.0V	TO220-3L	量产/MP	IRFP1404
AP180N04P	180A 40V 1.8mΩ	2.0-4.0V	TO220-3L	量产/MP	IRFP1404
AP120N06P	120A 65V 4.5mΩ	2.0-4.0V	TO220-3L	量产/MP	IRFP3206
AP85N08BP	85A 80V 6.5mΩ	2.0-4.0V	TO220-3L	量产/MP	EAS 能力强

后级逆变 Back-end Inverter

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
AP40N20P	40A 200V 52mΩ	2.0-4.0V	TO220-3L	量产/MP	平面工艺 Planar
AP50N20P	50A 200V 48mΩ	2.0-4.0V	TO220-3L	量产/MP	平面工艺 Planar
AP70N20MP	70A 200V 30mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP50N25MP	50A 250V 70mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP90N25MP	90A 280V 30mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP70N30MP	70A 300V 55mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP12N40P	12A 400V 430mΩ	2.0-4.0V	TO220-3L	量产/MP	平面工艺 Planar
AP30N40F	30A 400V 100mΩ	2.0-4.0V	TO220F-3L	量产/MP	平面工艺 Planar
AP40N40MP	40A 400V 90mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP20N50F	20A 500V 260mΩ	2.0-4.0V	TO220F-3L	量产/MP	平面工艺 Planar
AP24N50F	24A 500V 215mΩ	2.0-4.0V	TO220F-3L	量产/MP	平面工艺 Planar
AP28N50F	28A 500V 195mΩ	2.0-4.0V	TO220F-3L	量产/MP	平面工艺 Planar
AP24N50MP	24A 500V 215mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP28N50MP	28A 500V 170mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar
AP34N50MP	34A 500V 150mΩ	2.0-4.0V	TO247-3L	量产/MP	平面工艺 Planar



15、逆变器（便携式逆变器 1000-2000W） Inverter (Portable inverter 1000-2000W)



APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
AP160N10P	160A 100V 3.8mΩ	2.0-4.0V	TO220-3L	量产/MP	SGTI
AP220N10MP	220A 100V 2.8mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP280N10MP	280A 100V 2.0mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP340N10MP	340A 100V 1.7mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP160N10P	160A 100V 3.8mΩ	2.0-4.0V	TO220-3L	量产/MP	SGTI
AP220N10MP	220A 100V 2.8mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP280N10MP	280A 100V 2.0mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP340N10MP	340A 100V 1.7mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI

后级参考产品如下 Back-end reference products are as follows

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
APJ50N65F	IDM:50A 650V 160mΩ	2.0-4.0V	TO220F-3L	量产/MP	2 代深沟槽 Super Junction
APJ75N65F	IDM:75A 650V 100mΩ	2.0-4.0V	TO220F-3L	量产/MP	2 代深沟槽 Super Junction
APJ100N65MP	IDM:100A 650V 78mΩ	2.0-4.0V	TO247-3L	量产/MP	2 代深沟槽 Super Junction
APJ150N65MP	IDM:150A 650V 58mΩ	2.0-4.0V	TO247-3L	量产/MP	2 代深沟槽 Super Junction

便携式储能，作为 24V 系统，次级电路上选择可以多选择 100V 的产品，作为核心器件。后端的因为功率不大，因此可以考虑使用 58mΩ-160mΩ 作为后级驱动。

Portable energy storage, as a 24V system, the secondary circuit can choose more than 100V products as the core device. Because the power at the back end is not large, it can be considered to use 58mΩ-160mΩ as a post-stage drive.



16、逆变器（光伏微逆 2000-5000W） Inverter (PV micro-inverse 2000-5000W)



目前微型逆变器多采用高频变压器，该方案具备较高的功率密度，效率高，而且能够实现光伏电池与网侧的电气隔离，其中传统高频变压器的单级式电路结构较为简单，而多级式电路结构通常较为复杂成本高。

因此在针对传统意义上的微逆行业，永源微电子推出低电容，低阻抗 SGT 150V 系列来应对高频的特殊应用。同时由于随着拓扑架构的变更，提出了新的次级同步整流需求 60V 电压系列产品。

At present, high-frequency transformers are mostly used in micro-inverters, which have high power density, high efficiency, and can achieve electrical isolation between photovoltaic cells and the grid side, among which the single-stage circuit structure of the traditional high-frequency transformer is relatively simple, and the multistage circuit structure is usually more complex and high cost.

Therefore, in the traditional sense of the micro inverse industry, Yongyuan Microelectronics launched the low capacitance, low impedance SGT 150V series to cope with the special application of high frequency. At the same time, due to the change of topological architecture, a new series of 60V voltage products for secondary synchronous rectification is proposed.

次级参考产品如下

reference products are as follows

APM 型号 Model	参数 Parameter	结电容	开启电压 Vgs(th)	封装 Package	状态 State
AP90N15NF	90A 150V 16mΩ	2275pF	2.0-4.0V	PDFN5*6-8L	量产/MP
AP140N15NF	140A 150V 7.2mΩ	2184pF	2.0-4.0V	PDFN5*6-8L	量产/MP
AP180N06NF	180A 60V 1.7mΩ	5245pF	2.0-4.0V	PDFN5*6-8L	量产/MP
AP200N06NF	200A 60V 1.0mΩ	7312pF	2.0-4.0V	PDFN5*6-8L	量产/MP

后级参考产品如下

Subsequent reference products are as follows

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 package	状态 State	工艺 Technology
AP30T65MP	30A 650V	4.0-6.0V	TO247-3L	暂未量产	平面/planar
AP40T65MP	40A 650V	4.0-6.0V	TO247-3L	暂未量产	平面/planar
AP60T65MP	60A 650V	4.0-6.0V	TO247-3L	暂未量产	平面/planar



17、逆变器（光伏/家庭储逆变器 2000W-5000W） Inverter (PV/home storage inverter 2000W-5000W)



一般来说家庭储能逆变频率多半是在经典 35K，对应 MOS 的电容要求不是很高，但是对内阻要求会更苛刻。

Generally speaking, the inverter frequency of home energy storage is mostly in the classic 35K, and the capacitance requirements of the corresponding MOS are not very high, but the internal resistance requirements will be more stringent.

次级参考产品如下

reference products are as follows

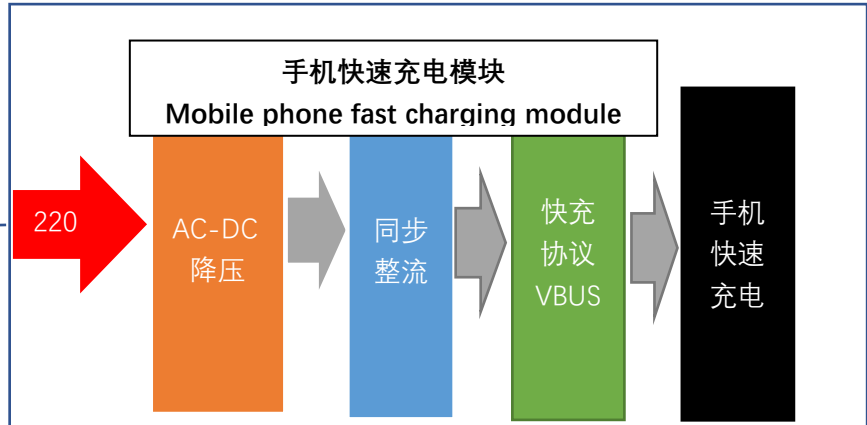
APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
AP120N15P	120A 150V 9.0mΩ	2.0-4.0V	TO220-3L	量产/MP	SGTI
AP190N15P	190A 150V 6.5mΩ	2.0-4.0V	TO220-3L	量产/MP	SGTI
AP240N15P	240A 150V 5.2mΩ	2.0-4.0V	TO220-3L	量产/MP	SGTI
AP300N15MP	300A 150V 3.5mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP100N20MP	100A 200V 17mΩ	2.0-4.0V	TO247-3L	量产/MP	沟槽/Trench
AP130N20MP	130A 200V 17mΩ	2.0-4.0V	TO247-3L	量产/MP	平面/Planar
AP140N20MP	140A 200V 9.0mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP110N25MP	110A 250V 17mΩ	2.0-4.0V	TO247-3L	量产/MP	SGTI
AP90N25MP	90A 280V 30mΩ	2.0-4.0V	TO247-3L	量产/MP	平面/planar
AP100N30MP	100A 300V 44mΩ	2.0-4.0V	TO247-3L	量产/MP	平面/planar

永源微电子，针对这个市场推出大量低电阻，TO-247 封装的产品。电阻率从几个 mR 到几十 mR，电压平台从 100V-300V 系列。

Yongyuan Microelectronics has launched a large number of low-resistance, TO-247 packages for this market. The resistivity ranges from a few mR To tens of mR, and the voltage platform ranges from 100V-300V series.



18、电源（PD 快充 45W-120W）（PD fast charge 45W-120W）



高压 High voltage MOSFET（C 系列是多层外延系列 C : multi-layer epitaxial technology）

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
APC24N65F	IDM: 24A 650V 360mΩ	2.0-4.0V	TO220F-3L	量产/MP	多层外延/C
APC28N65F	IDM: 28A 650V 300mΩ	2.0-4.0V	TO220F-3L	量产/MP	多层外延/C
APC24N65NF	IDM: 24A 650V 300mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	多层外延/C
APC40N65F	IDM: 40A 650V 200mΩ	2.0-4.0V	TO220F-3L	量产/MP	多层外延/C
APC50N65F	IDM: 50A 650V 190mΩ	2.0-4.0V	TO220F-3L	量产/MP	多层外延/C

同步整流 Synchronous Rectification MOSFET

APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State	工艺 Technology
APG80N10NF	80A 100V 6.5mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	SGT
APG110N10NF	110A 100V 4.5mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	SGT
APG120N12NF	120A 120V 6.5mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	SGT
APG120N12P	120A 120V 6.5mΩ	2.0-4.0V	TO220-3L	量产/MP	SGT
AP200N12P	200A 120V 4.2mΩ	2.0-4.0V	TO220-3L	量产/MP	SGT
AP120N15NF	120A 150V 9.0mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	SGT
AP120N15P	120A 150V 9.0mΩ	2.0-4.0V	TO220-3L	量产/MP	SGT
AP140N15NF	140A 150V 7.4mΩ	2.0-4.0V	PDFN5*6-8L	量产/MP	SGT
AP140N15P	140A 150V 7.4mΩ	2.0-4.0V	TO220-3L	量产/MP	SGT
AP190N15P	190A 150V 6.5mΩ	2.0-4.0V	TO220-3L	量产/MP	SGT

快充 Fast charging Vbus MOSFET

沟道 Type	APM 型号 Model	参数 Parameter	开启电压 Vgs(th)	封装 Package	状态 State
N-CH	AP2320MI	8.0A 20V 8.5mΩ	0.5-1.2V	SOT23-3L	量产/MP
P-CH	AP2307MI	-7.0A -20V 16mΩ	0.4-1.0V	SOT23-3L	量产/MP
N-CH	AP60N03DF	60A 30V 6.5mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
N-CH	AP68N03DF	68A 30V 4.8mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
N-CH	AP75N03DF	75A 30V 4.2mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
N-CH	AP68N04DF	68A 30V 6.8mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
P-CH	AP40P03DF	-40A -30V 11mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
P-CH	AP60P03DF	-60A -40V 6.5mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP
P-CH	AP50P04DF	-50A -40V 10mΩ	1.2-2.5V	PDFN3*3-8L	量产/MP



18

频率 Frequency	结电容 Junction capacity
108-180K	≤1800PF
200-250K	≤1400PF
340-500K	≤850PF

电容和频率对照关系

根据现在大家传统的同步整流升降压架构，永源微电子通过优化整合产品结构体系，推出上下桥式 PDFN5*6-8L 封装，涵盖电压从 30V-60V 系列，参考结构如右边所示。

According to the current traditional synchronous rectifier voltage lifting architecture, Yongyuan microelectronics through the best Integrated product structure system, launched the upper and lower bridge PDFN5*6-8L package, coveringThe voltage ranges from 30V-60V series, the reference structure is shown on the right.

适配参考方案设计：英集芯，智融科技，南芯半导体，北京芯州，宝砾微

同步升降压电



AP80H03NF2

30V N+N-Channel Enhancement Mode MOSFET

Description

The AP80H03NF2 uses advanced APM-SGT V technology to provide excellent $R_{DS(on)}$, low gate charge and operation with gate voltages as low as 4.5V. This device is suitable for use as a Battery protection or in other Switching application.

General Features

$V_{DS} = 30V$ $I_D = 80A$

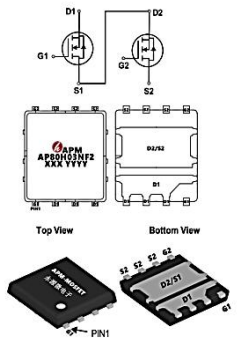
$R_{DS(on)} < 6.0m\Omega$ @ $V_{GS}=10V$ (Type: 4.8m Ω)

$C_{iss} \approx 1010$ PF

Application

Buck

Boost



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCB)
AP80H03NF2	PDFN5*6-8L	AP80H03NF2 XXX YYY	5000

Absolute Maximum Ratings (Tc=25°C unless otherwise noted)

Symbol	Parameter	Max.	Units
V_{DS}	Drain-Source Voltage	30	V
V_{GS}	Gate-Source Voltage	±20	V
I_D @ $T_C=25^\circ C$	Continuous Drain Current, $V_{GS} @ 10V$	80	A
I_D @ $T_C=100^\circ C$	Continuous Drain Current, $V_{GS} @ 10V$	32	A
I_{DM}	Pulsed Drain Current	300	A
E_{AS}	Single Pulsed Avalanche Energy	28.8	mJ
I_{AS}	Avalanche Current	24	A
P_D @ $T_C=25^\circ C$	Power Dissipation	24	W
$R_{\theta JA}$	Thermal Resistance Junction-Ambient ¹	25	°C/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case	5.2	°C/W
T_J TSTG	Operating Junction Temperature Range	-55 to 150	°C

AP80H03NF2 RVE1.0

永源电子科技有限公司

桥式结构 Bridge structure

沟道 (Type)	型号 (Model)	参数 (parameter)	结电容 (Ciss)	封装 (package)	状态 (State)
N+N-CH	AP50H03NF2	30V 50A 6.7m Ω	814pF	PDFN5*6-8L	量产 MP
N+N-CH	AP80H03NF2	30V 80A 4.8m Ω	1010pF	PDFN5*6-8L	量产 MP
N+N-CH	AP100H03NF2	30V 100A 3.5m Ω	1400pF	PDFN5*6-8L	量产 MP
N+N-CH	AP40H04NF2	40V 40A 6.9m Ω	690pF	PDFN5*6-8L	量产 MP
N+N-CH	AP80H04NF2	40V 40A 4.5m Ω	1314pF	PDFN5*6-8L	量产 MP
N+N-CH	AP50H06NF2	60V 50A 10m Ω		PDFN5*6-8L	量产 MP
N+N-CH	AP60H06NF2	60V 60A 7.2m Ω		PDFN5*6-8L	量产 MP

传统单 N 分立结构 Traditional single N discrete structure

沟道 (Type)	型号 (Model)	参数 (parameter)	结电容 (Ciss)	封装 (package)	状态 (State)
N	AP68N03DF	30V 68A 6.7m Ω	814pF	PDFN3*3-8L	量产 MP
N	AP68N03NF	30V 68A 6.7m Ω	814pF	PDFN5*6-8L	量产 MP
N	AP75N03DF	30V 75A 4.8m Ω	1010pF	PDFN3*3-8L	量产 MP
N	AP75N03NF	30V 75A 4.8m Ω	1010pF	PDFN5*6-8L	量产 MP
N	AP68N04DF	40V 40A 6.9m Ω	690pF	PDFN3*3-8L	量产 MP
N	AP68N04NF	40V 40A 6.9m Ω	690pF	PDFN5*6-8L	量产 MP
N	AP65N06DF	60V 65A 6.5m Ω		PDFN3*3-8L	量产 MP
N	AP100N04NF	40V 100A 2.2m Ω		PDFN5*6-8L	量产 MP



19、电子烟 Electronic Cigarette



负载阻值和内阻对照表格

load resistance and internal resistance Reference table

阻值 (水泥电阻) Resistance	MOS 内阻 Rds(on)
0.09R	1.8mΩ
0.18R	3.5mΩ
0.3R	7.0mΩ
0.8R	12-15mΩ
10R	35mΩ



注：数据来源于 APM 5 年电子烟市场汇总统计，数据仅供参考。

Note: Data from APM 5 years of e-cigarette market summary statistics,
data for reference only

永源微电子目前服务于深圳众多电子烟大客户，市场应用产品面广，产品线 MOS 覆盖从小烟到大烟等应用，特别在 P 管系列，永源微电子是目前国内最齐全的电子烟产品线供应商，综合性价比最高供应商。

Yongyuan Microelectronics serves many major e-cigarette customers in Shenzhen, with a wide range of market applications, and its product line MOS covers applications from small cigarettes to large cigarettes, especially in the P-tube series. Yongyuan Microelectronics is currently the most complete e-cigarette product line supplier in China, with the highest comprehensive cost performance supplier.

沟道 Type	型号 Model	参数 Parameter	封装 Package	状态 State	应用 Application
P-CH	AP2311MI	-18V -7.0A 19mΩ	SOT23-3L	量产 MP	小烟
P-CH	AP20P01BF	-18V -20A 14mΩ	QFN2*2-6L	量产 MP	小烟
P-CH	AP2305BI	-20V -6.2A 32mΩ	SOT23L	量产 MP	小烟
P-CH	AP2305AI	-20V -6.8A 28mΩ	SOT23L	量产 MP	小烟
P-CH	AP2307AI	-20V -7.0A 20mΩ	SOT23L	量产 MP	小烟
P-CH	AP2307MI	-20V -7.0A 16mΩ	SOT23-3L	量产 MP	小烟
P-CH	AP30P02DF	-20V -30A 12mΩ	PDFN3*3-8L	量产 MP	小烟
P-CH	AP50P02DF	-20V -50A 6.5mΩ	PDFN3*3-8L	量产 MP	小烟
P-CH	AP80P02DF	-20V -80A 4.8mΩ	PDFN3*3-8L	量产 MP	小烟
P-CH	AP100P02NF	-20V -100A 2.1mΩ	PDFN5*6-8L	量产 MP	小烟
P-CH	AP150P02NF	-20V -150A 1.5mΩ	PDFN5*6-8L	量产 MP	小烟
N-CH	AP85N03NF	30V 85A 2.1mΩ	PDFN5*6-8L	量产 MP	大烟
N-CH	AP135N03NF	30V 135A 1.3mΩ	PDFN5*6-8L	量产 MP	大烟



20. MOSFET 型号命名规则 Naming rules for MOSFET models

序号	解析	编码	解析
1	简称	AP	(永源微电子) Yongyuan Microelectronics Technology CO.,LTD

AP200N04TLG5								
AP		200	N	04			TL	G5
1	2	3	4	5	6	7	8	9
2	工艺制程 Technology	留空	沟槽 (Trench)					
		C	超结多层外延工艺 (Multi-layer epitaxial technology)					
		K	平面 (Planar)					
		G	屏蔽栅 (SGT)					
		J	超结深沟槽工艺 (Super Junction)					
		D	耗尽型工艺 (Depletion)					
		H	工业级 Mosfet					
		E	车规级 Mosfet					
3	额定电流 Rated Current		数字前加"0"表示小数点 A "0" before a number indicates a decimal point					
4	沟道 Type	N	N 沟道/ N type					
		P	P 沟道/ P type					
		H	N+N 沟道/ N+N Type					
		V	P+P 沟道/ P+P Type					
		G	N+P 沟道/ N+PType					
5	额定电压 Rated Voltage		实际耐压等于: 数值*10 The actual pressure is equal to: value *10					
6	版本号	A/B/C/D/E	版本号 version number					
7	特殊开启电压 Special Vgs(th)	L	30V-300V Vth 1V 以内 Below					
		H	30V-300V Vth 2.5V 以上 Above					
8	封装形式 (Package)	I	SOT23L		ES		ESOP-8	
		MI	SOT23-3L		T6		TO263-6L	
		LI	SOT23-6L		MP		TO247-3L	
		SI	SOT89-3L		VP		TO264-3L	
		MSI	SOT223-3L		TS		TSSOP-8L	
		D	TO252-3L		BF		DFN2*2-6L	
		Y	TO251-3L		CF		DFN2*3-6L	
		GD	TO252-4L		DF		PDFN3*3-8L	
		F	TO220F-3L		NF		PDFN5*6-8L	
		P	TO220-3L		NF2		PDFN5*6-8L 上下架构	
		T	TO263-3L		TL		TOLLA-8L	
		T2	TO262-3L		SL		STOLL-6L	
		S	SOP-8L		DW		SOT363-6L	
		L	SOT323-3L					
9	工艺等级	G5	SGT 第五代					



2、选型表格（MOSFET）

增强型 P-MOSFET

Type	工艺	型号 Model	电流	耐压	V _{GS}	ESD	V _{GS(th)} (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP2311AI	-8.1	-12	12	/	-0.5	-0.65	-1	18	24	20	26	SOT23L	正常出货
P	Trench	AP2311BI	-6.2	-12	12	/	-0.4	-0.65	-1	—	—	26	32	SOT23L	正常出货
P	Trench	AP2311MI	-7	-12	12	/	-0.5	-0.65	-1	—	—	19	24	SOT23-3L	正常出货
P	Trench	AP2313MI	-8	-12	12	/	-0.4	-0.7	-1	—	—	16	20	SOT23-3L	正常出货
P	Trench	AP2315MI	-10	-12	12	/	-0.5	-0.6	-1.2	—	—	12	18	SOT23-3L	暂未量产
P	Trench	AP16P01BF	-16	-12	12	/	-0.4	0.7	-1	18	24	24	32	QFN2*2-6L	正常出货
P	Trench	AP16P01DF	-16	-12	12	/	-0.4	0.7	-1	18	24	24	32	PDFN3*3-8L	暂未量产
P	Trench	AP20P01BF	-20	-12	12	/	-0.5	-0.65	-1	12	18	14	23	QFN2*2-6L	正常出货
P	Trench	AP20P01DF	-20	-12	12	/	-0.5	-0.6	-1.2	—	—	15	18	PDFN3*3-8L	暂未量产
P	Trench	AP30P01DF	-30	-12	12	/	-0.5	-0.6	-1.2	—	—	5.8	7.2	PDFN3*3-8L	暂未量产
P	Trench	AP70P01NF	-70	-12	12	/	-0.5	-0.6	-1.2	—	—	4.8	6	PDFN5*6-8L	正常出货
P	Trench	AP80P01NF	-80	-15	12	/	-0.4	-0.6	-1	—	—	3.5	4.5	PDFN5*6-8L	正常出货
P	Trench	AP90P01D	-90	-12	12	/	-0.4	-0.6	-1	—	—	3.5	4.5	TO252-3L	正常出货
P	Trench	AP100P01D	-100	-12	12	/	-0.5	-0.6	-1	—	—	2.7	3.5	TO252-3L	暂未量产
P	Trench	AP100P01NF	-100	-12	12	/	-0.5	-0.6	-1.2	—	—	3.5	4.5	PDFN5*6-8L	暂未量产
P	Trench	AP2301AI	-3.3	-20	12	/	-0.5	-0.7	-1.2	—	—	55	80	SOT23L	正常出货
P	Trench	AP2301BI	-2.8	-20	12	/	-0.5	-0.7	-1.2	—	—	95	125	SOT23L	正常出货
P	Trench	AP2301CI	-2.3	-20	12	/	-0.5	-0.7	-1.2	—	—	125	165	SOT23L	正常出货
P	Trench	AP2303AI	-3.8	-20	12	/	-0.5	-0.7	-1.2	—	—	44	50	SOT23L	暂未量产
P	Trench	AP2305BI	-6.2	-20	12	/	-0.5	-0.69	-1.2	—	—	30	36	SOT23L	正常出货
P	Trench	AP2305AI	-6.8	-20	12	/	-0.5	-0.7	-1.2	—	—	27	35	SOT23L	正常出货
P	Trench	AP2305MI	-4.9	-20	12	/	-0.4	—	-1	—	—	32	38	SOT23-3L	正常出货
P	Trench	AP2307AI	-7	-20	12	/	-0.5	-0.7	-1.2	—	—	20	25	SOT23L	正常出货
P	Trench	AP2307MI	-7	-20	12	/	-0.4	-0.7	-0.1	—	—	16	21	SOT23-3L	正常出货
P	Trench	AP2307MI-L	-7	-20	12	/	-0.5	-0.7	-0.1	—	—	18	26	SOT23-3L	正常出货
P	Trench	AP3415AI	-4.2	-20	12	3200	-0.3	—	-1	—	—	37	43	SOT23L	正常出货
P	Trench	AP3415BI	-4.5	-20	12	2500	-0.4	-0.7	-0.1	—	—	31	40	SOT23L	正常出货
P	Trench	AP3415MI	-5	-20	12	3200	-0.5	-0.7	-1.2	—	—	35	42	SOT23-3L	正常出货
P	Trench	AP3415LI	-5	-20	12	3200	-0.5	-0.7	-1.2	—	—	35	42	SOT23-6L	正常出货
P	Trench	AP2309MI	-8	-20	12	/	-0.5	-0.7	-1.2	—	—	12	18	SOT23-3L	暂未量产
P	Trench	AP4P02LI	-4.3	-20	12		-0.5	-0.6	-1.0	/	/	50	80	SOT23-6L	正常出货
P	Trench	AP8P02LI	-8	-20	12	/	-0.5	-0.7	-1.2	—	—	28	32	SOT23-6L	正常出货
P	Trench	AP10P02MI	-10	-20	12	/	-0.5	-0.7	-1.2	—	—	16	20	SOT23-3L	暂未量产
P	Trench	AP16P02S	-16	-20	12	/	-0.5	-0.6	-1.2	—	—	14	20	SOP-8L	正常出货
P	Trench	AP20P02SI	-20	-20	12	/	-0.4	—	-1	—	—	32	38	SOT89-3L	正常出货
P	Trench	AP20P02D	-20	-20	12	/	-0.4	-0.7	-1	—	—	18	25	TO252-3L	正常出货
P	Trench	AP20P02BF	-20	-20	12	/	-0.4	-0.6	-1	—	—	12	18	QFN2*2-6L	正常出货
P	Trench	AP30P02DF	-30	-20	12	/	-0.5	-0.6	-1.2	—	—	16	20	PDFN3*3-8L	正常出货



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP30P02BF	-30	-20	12	/	-0.5	-0.6	-1.2	—	—	9.5	12	QFN2*2-6L	正常出货
P	Trench	AP40P02DF	-40	-20	12	/	-0.4	-0.65	-1	—	—	8	12	PDFN3*3-8L	正常出货
P	Trench	AP40P02D	-40	-20	12	/	-0.5	-0.6	-1.2	—	—	12	20	TO252-3L	正常出货
P	Trench	AP50P02D	-50	-20	12	/	-0.5	-0.7	-1.2	—	—	12	15	TO252-3L	暂未量产
P	Trench	AP50P02DF	-50	-20	12	/	-0.3	-0.6	-1	—	—	6.8	9	PDFN3*3-8L	正常出货
P	Trench	AP60P02D	-60	-20	12	/	-0.4	-0.65	-1	—	—	8	12	TO252-3L	正常出货
P	Trench	AP60P02NF	-60	-20	12	/	-0.4	-0.6	-1	—	—	9	12	PDFN5*6-8L	正常出货
P	Trench	AP70P02D	-70	-20	12	/	-0.3	-0.6	-1	—	—	6.5	9	TO252-3L	正常出货
P	Trench	AP70P02NF	-70	-20	12	/	-0.3	-0.6	-1	—	—	6.8	9	PDFN5*6-8L	正常出货
P	Trench	AP80P02DF	-80	-20	12	/	-0.45	-0.6	-1	—	—	4.8	6	PDFN3*3-8L	正常出货
P	Trench	AP80P02NF	-80	-20	12	/	-0.4	-0.6	-1	—	—	4.8	6	PDFN5*6-8L	正常出货
P	Trench	AP100P02D	-100	-20	12	/	-0.45	-0.65	-1.2	—	—	4.5	6.5	TO252-3L	正常出货
P	Trench	AP100P02NF	-100	-20	12	/	-0.45	-0.65	-1.2	—	—	2.1	2.7	PDFN5*6-8L	正常出货
P	Trench	AP150P02NF	-150	-20	12	/	-0.45	-0.65	-1.2	—	—	1.3	2	PDFN5*6-8L	正常出货
P	Trench	AP3401CI	-3.6	-30	12	/	-0.5	-0.9	-1.5	65	85	75	90	SOT23L	正常出货
P	Trench	AP3401BI	-4.2	-30	12	/	-0.5	-0.9	-1.5	45	55	53	68	SOT23L	正常出货
P	Trench	AP3401AI	-4.8	-30	12	/	0.5	-1	-1.5	40	50	45	55	SOT23L	正常出货
P	Trench	AP3401MI-L	-4.2	-30	12	/	-0.5	-0.9	-1.5	45	55	53	68	SOT23-3L	正常出货
P	Trench	AP3401MI	-4.8	-30	12	/	0.5	-1	-1.5	40	50	45	55	SOT23-3L	正常出货
P	Trench	AP3407CI	-3.6	-30	20	/	-1.2	-1.6	-2.5	70	85	100	120	SOT23L	正常出货
P	Trench	AP3407BI	-4.2	-30	20	/	-1.2	-1.6	-2.5	48	58	60	72	SOT23L	正常出货
P	Trench	AP3407AI	-4.8	-30	20	/	-1.2	-1.6	-2.5	42	55	54	65	SOT23L	正常出货
P	Trench	AP3407MI-L	-4.2	-30	20	/	-1.2	-1.6	-2.5	48	58	60	72	SOT23-3L	正常出货
P	Trench	AP3407MI	-4.8	-30	20	/	-1.1	-1.5	-2.5	42	52	54	65	SOT23-3L	正常出货
P	Trench	AP3409AI	-8	-30	20	/	-1.2	-1.5	-2.5	23	30	33	40	SOT23-3L	暂未量产
P	Trench	AP3409MI	-12	-30	20	/	-1.2	-1.5	-2.5	23	30	33	40	SOT23-3L	正常出货
P	Trench	AP6P03MSI	-6	-30	20	/	-1.2	-1.5	-2.5	40	55	65	90	SOT223-3L	暂未量产
P	Trench	AP6P03SI	-6	-30	20	/	-1	-1.6	-2.5	40	55	65	90	SOT89-3L	正常出货
P	Trench	AP9435B	-5.3	-30	20	/	-1	-1.6	-2.5	43	60	65	90	SOP-8L	正常出货
P	Trench	AP9435A	-6	-30	20	/	-1	-1.6	-2.5	43	60	65	90	SOP-8L	正常出货
P	Trench	AP8P03LI	-8	-30	20	/	-1.2	-1.5	1.5	24	35	32	45	SOT23-6L	正常出货
P	Trench	AP10P03S	-10	-30	20	/	-1.2	-1.5	-2.5	18	24	25	30	SOP-8L	正常出货
P	Trench	AP10P03SI	-10	-30	20	/	-1.2	-1.5	-2.5	18	24	25	30	SOT89-3L	正常出货
P	Trench	AP4435B	-9.3	-30	20	/	-1.2	-1.5	-2.5	16	20	25	30	SOP-8L	正常出货
P	Trench	AP4435A	-10.5	-30	20	/	-1	-1.6	-2.5	12	16	18	24	SOP-8L	正常出货
P	Trench	AP4407B	-11.3	-30	20	/	-1	-1.5	-2.5	11.5	16	16	25	SOP-8L	正常出货
P	Trench	AP4407A	-12	-30	20	/	-1	-1.6	-2.5	10	13	16	20	SOP-8L	正常出货
P	Trench	AP4409A	-14	-30	20	/	-1.2	—	-2.5	—	8.7	—	13.5	SOP-8L	正常出货
P	Trench	AP20P03D	-20	-30	20	/	-1.2	—	-2.5	38	42	65	78	TO252-3L	正常出货
P	Trench	AP20P03DF	-20	-30	20	/	-1.2	-1.7	-2.5	18.8	25	30.5	40	PDFN3*3-8L	正常出货
P	Trench	AP20P03S	-20	-30	20	/	-1.2	—	-2.5	5.6	7.2	9.5	12	SOP-8L	正在投产
P	Trench	AP30P03BD	-30	-30	20	/	-1.2	-1.5	-2.5	15	20	23	30	TO252-3L	暂未量产



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP30P03D	-38	-30	20	/	-1.2	-1.5	-2.5	12	16	18	25	TO252-3L	正常出货
P	Trench	AP30P03S	-30	-30	20	/	-1.2	-1.5	-2.5	4.5	5	6.5	7.5	SOP-8L	正在投产
P	Trench	AP30P03Y	-30	-30	20	/	-1	—	-2.5	18	20	25	32	TO251-3L	正常出货
P	Trench	AP30P03NF	-30	-30	20	/	-1	-1.4	-2.5	15.5	18	20.5	28	PDFN5*6-8L	正常出货
P	Trench	AP30P03DF	-30	-30	25	/	-1	-1.4	-2.5	15.5	18	20.5	28	PDFN3*3-8L	正常出货
P	Trench	AP40P03DF	-40	-30	20	/	-1.2	-1.5	-2.5	10.5	16	16	20	PDFN3*3-8L	正常出货
P	Trench	AP40P03S	-40	-30	20	/	-1	-1.7	-2.5	2.5	3.2	4	5.2	SOP-8L	正在投产
P	Trench	AP50P03DF	-50	-30	20	/	-1.2	-1.4	-2.5	8.8	13	14	20	PDFN3*3-8L	正常出货
P	Trench	AP50P03NF	-50	-30	20	/	-1	-1.7	-2.5	9	13	14	20	PDFN5*6-8L	正常出货
P	Trench	AP50P03D	-50	-30	20	/	-1.2	-1.5	-2.5	11.5	16	18	24	TO252-3L	正常出货
P	Trench	AP60P03D	-60	-30	20	/	-1.2	-1.6	-2.5	9	13	13	18	TO252-3L	正常出货
P	Trench	AP60P03DF	-60	-30	20	/	-1.2	-1.5	-2.5	6.8	8	9.3	13	PDFN3*3-8L	正常出货
P	Trench	AP60P03NF	-60	-30	20	/	-1.2	-1.5	-2.5	6.8	8	9.3	13	PDFN5*6-8L	正常出货
P	Trench	AP70P03P	-70	-30	20	/	-1.2	—	-2.5	8.5	13	11	18	TO220-3L	正常出货
P	Trench	AP70P03DF	-70	-30	20	/	-1.2	—	-2.5	6	7.2	9.5	12	PDFN3*3-8L	正常出货
P	Trench	AP70P03D	-70	-30	20	/	-1.2	—	-2.5	6	7.2	9.5	12	TO252-3L	正常出货
P	Trench	AP70P03NF	-70	-30	20	/	-1.2	—	-2.5	5.6	7.2	9.5	12	PDFN5*6-8L	正常出货
P	Trench	AP90P03D	-90	-30	20	/	-1.2	-1.4	-2.5	5.2	7	8	11	TO252-3L	正常出货
P	Trench	AP90P03NF	-90	-30	20	/	-1	-1.6	-2.5	4.9	6.4	7.5	10.5	PDFN5*6-8L	正常出货
P	Trench	AP100P03D	-100	-30	20	/	-1	-1.6	-2.5	4.9	6.4	7.5	10.5	TO252-3L	正常出货
P	Trench	AP100P03P	-100	-30	20	/	-1.2	—	-2.5	6	7.2	9.5	12	TO220-3L	正常出货
P	Trench	AP120P03P	-120	-30	20	/	-1	-1.6	-2.5	4.9	6.4	7.5	10.5	TO220-3L	正常出货
P	Trench	AP120P03T	-120	-30	20	/	-1	-1.6	-2.5	4.9	6.4	7.5	10.5	TO263-3L	正常出货
P	Trench	AP120P03D	-120	-30	20	/	-1	-1.6	-2.5	3.8	5.5	5.8	8.2	TO252-3L	正常出货
P	Trench	AP120P03NF	-120	-30	20	/	-1	-1.6	-2.5	3.8	5.5	5.8	8.2	PDFN5*6-8L	正常出货
P	Trench	AP150P03NF	-150	-30	20	/	-1	-1.7	-2.5	2.5	3.2	4	5.2	PDFN5*6-8L	正常出货
P	Trench	AP150P03P	-150	-30	20	/	-1	-1.6	-2.5	3.8	5.5	5.8	8.2	TO220-3L	正常出货
P	Trench	AP150P03T	-150	-30	20	/	-1	-1.6	-2.5	3.8	5.5	5.8	8.2	TO263-3L	正常出货
P	Trench	AP190P03P	-190	-30	20	/	-1	-1.7	-2.5	2.5	3.2	4	5.2	TO220-3L	正常出货
P	Trench	AP190P03T	-190	-30	20	/	-1	-1.7	-2.5	2.5	3.2	4	5.2	TO263-3L	正常出货
P	Trench	AP250P03T6	-250	-30	20	/	-1	-1.7	-2.5	1.4	2	2	2.6	TO263-6L	正常出货
P	Trench	AP3P04AI	-3	-40	20	/	-1	-1.5	-2.5	62	75	81	100	SOT23L	正常出货
P	Trench	AP5P04MI	-5	-40	20	/	-1	-1.5	-2.5	65	70	85	100	SOT23-3L	正常出货
P	Trench	AP6P04SI	-6	-40	20	/	-1	-1.5	-2.5	60	65	85	10	SOP-8L	正常出货
P	Trench	AP6P04S	-6	-40	20	/	-1	-1.5	-2.5	60	65	85	10	SOP-8L	正常出货
P	Trench	AP8P04MI	-8	-40	20	/	-1.2	-1.5	-2.5	38	45	50	65	SOT23-3L	正常出货
P	Trench	AP8P04S	-8	-40	20	/	-1.2	-1.6	-2.5	26	32	32	46	SOP-8L	正常出货
P	Trench	AP10P04D	-10	-40	20	/	-1	-1.6	-2.5	60	65	85	100	TO252-3L	正常出货
P	Trench	AP10P04SI	-10	-40	20	/	-1	-1.6	-2.5	30	40	45	60	SOT89-3L	正常出货
P	Trench	AP12P04S	-10	-40	20	/	-1.2	-1.5	-2.5	15	18	18	20	SOP-8L	正常出货
P	Trench	AP15P04S	-15.8	-40	20	/	-1	-1.6	-2.5	11	15	16	20	SOP-8L	正常出货
P	Trench	AP15P04D	-15	-40	20	/	-1	-1.6	-2.5	27	32	39	46	TO252-3L	即将停产



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP20P04DF	-20	-40	20	/	-1	-1.6	-2.5	30	40	45	60	PDFN3*3-8L	正常出货
P	Trench	AP20P04D	-20	-40	20	/	-1	-1.6	-2.5	30	40	45	60	TO252-3L	正常出货
P	Trench	AP30P04DF	-30	-40	20	/	-1	-1.6	-2.5	20	28	25	32	PDFN3*3-8L	正常出货
P	Trench	AP30P04NF	-30	-40	20	/	-1	-1.6	-2.5	20	28	25	32	PDFN5*6-8L	正常出货
P	Trench	AP30P04D	-30	-40	20	/	-1	-1.6	-2.5	27	32	39	46	TO252-3L	正常出货
P	Trench	AP40P04D	-40	-40	20	/	-1	-1.6	-2.5	15	18	18	25	TO252-3L	正常出货
P	Trench	AP40P04DF	-40	-40	20	/	-1	-1.6	-2.5	15	18	18	25	PDFN3*3-8L	正常出货
P	Trench	AP40P04NF	-40	-40	20	/	-1	-1.6	-2.5	15	18	18	25	PDFN5*6-8L	正常出货
P	Trench	AP50P04D	-50	-40	20	/	-1	-1.6	-2.5	10.5	13	15	20	TO252-3L	正常出货
P	Trench	AP50P04DF	-50	-40	20	/	-1.2	-1.5	-2.5	10.3	13	17	22	PDFN3*3-8L	正常出货
P	Trench	AP50P04NF	-50	-40	20	/	-1	-1.6	-2.5	10.5	13	15	20	PDFN5*6-8L	正常出货
P	Trench	AP80P04D	-80	-40	20	/	-1.2	-1.8	-2.5	7	10	9	15	TO252-3L	正常出货
P	Trench	AP80P04NF	-80	-40	20	/	-1.2	-1.8	-2.5	7	10	9	15	PDFN5*6-8L	正常出货
P	Trench	AP100P04D	-100	-40	20	/	-1.2	-1.8	-2.5	4.6	5.8	6	9	TO252-3L	正常出货
P	Trench	AP100P04NF	-100	-40	20	/	-1.2	-1.8	-2.5	4.6	5.8	6	9	PDFN5*6-8L	正常出货
P	Trench	AP120P04P	-120	-40	20	/	-1.2	-1.5	-2.5	4	6	6	8	TO220-3L	正常出货
P	Trench	AP120P04T	-120	-40	20	/	-1.2	-1.5	-2.5	4	6	6	8	TO263-3L	正常出货
P	Trench	AP180P04T	-180	-40	20	/	-1.2	-1.8	-2.5	2.3	3.4	3	4.5	TO263-3L	正常出货
P	Trench	AP180P04T6	-180	-40	20	/	-1.2	-1.8	-2.5	2.3	3.4	3	4.5	TO263-6L	正常出货
P	Trench	AP4P05AI	-4	-55	20	/	-1	-1.6	-2.5	115	150	135	160	SOT23L	正常出货
P	Trench	AP4P05MI	-4.2	-55	20	/	-1	-1.6	-2.5	110	125	125	155	SOT23-3L	正常出货
P	Trench	AP6P05MI	-6.2	-55	20	/	-1.2	-1.75	-2.5	80	105	93	125	SOT23-3L	正常出货
P	Trench	AP6P05SI	-6.8	-55	20	/	-1	-1.6	-2.5	110	125	125	155	SOT89-3L	正常出货
P	Trench	AP6P05MSI	-6.8	-55	20	/	-1	-1.6	-2.5	110	125	125	155	SOT223-3L	暂未量产
P	Trench	AP12P05D	-12	-55	20	/	-1	-1.6	-2.5	95	120	115	160	TO252-3L	暂未量产
P	Trench	AP2P06AI	-1.8	-60	20	/	-1.2	-1.5	-2.5	225	300	280	350	SOT23L	暂未量产
P	Trench	AP3P06BF	-2.8	-60	20	/	-1.2	-1.7	-2.5	165	200	200	250	QFN2*2-6L	正常出货
P	Trench	AP3P06AI	-3	-60	20	/	-1	—	-2.5	130	185	158	200	SOT23L	正常出货
P	Trench	AP3P06BI	-2.8	-60	20	/	-1.2	-1.7	-2.5	165	200	200	250	SOT23L	正常出货
P	Trench	AP3P06MI	-3.8	-60	20	/	-1	-1.7	-2.5	125	150	158	200	SOT23-3L	正常出货
P	Trench	AP3P06LI	-3.8	-60	20	/	-1	-1.7	-2.5	125	150	158	200	SOT23-6L	正常出货
P	Trench	AP3P06MSI	-3.8	-60	20	/	-1.2	-1.5	-2.5	110	130	140	190	SOT89-3L	暂未量产
P	Trench	AP5P06MI	-5	-60	20	/	-1.2	-1.5	-2.5	90	110	110	150	SOT23-3L	正常出货
P	Trench	AP5P06MSI	-5	-60	20	/	-1	-1.7	-2.5	110	130	140	190	SOT223-3L	正常出货
P	Trench	AP6P06MI	-6	-60	20	/	-1.2	-1.75	-2.5	80	90	100	115	SOT23-3L	正常出货
P	Trench	AP6P06LI	-6	-60	20	/	-1.2	-1.75	-2.5	80	90	100	115	SOT23-6L	正常出货
P	Trench	AP8P06MSI	-8	-60	20	/	-1.2	-1.75	-2.5	75	100	100	125	SOT223-3L	正常出货
P	Trench	AP8P06S	-8	-60	20	/	-1.2	-1.5	-2.5	55	70	64	105	SOP-8L	正常出货
P	Trench	AP8P06SI	-8.5	-60	20	/	-1.2	-1.75	-2.5	68	90	89	115	SOT89-3L	正常出货
P	Trench	AP10P06MSI	-10	-60	20	/	-1.2	-1.5	-2.5	55	70	64	105	SOT223-3L	正常出货
P	Trench	AP13P06D	-13.5	-60	20	/	-1.2	-1.75	-2.5	80	90	100	115	TO252-3L	正常出货
P	Trench	AP13P06Y	-13.5	-60	20	/	-1.2	-1.75	-2.5	80	90	100	115	TO251-3L	正常出货



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP13P06S	-13	-60	20	/	-1.2	-1.5	-2.5	32	42	44	55	SOP-8L	暂未量产
P	Trench	AP15P06DF	-15	-60	20	/	-1.2	-1.75	-2.5	68	80	90	110	PDFN3*3-8L	正常出货
P	Trench	AP15P06D	-18.8	-60	20	/	-1.2	-1.5	-2.5	53	70	64	105	TO252-3L	正常出货
P	Trench	AP15P06S	-15	-60	20	/	-1.2	-1.5	-2.5	21	28	25	33	SOP-8L	正常出货
P	Trench	AP20P06P	-20	-60	20	/	-1.2	-1.5	-2.5	55	70	64	105	TO220-3L	正常出货
P	Trench	AP20P06T	-20	-60	20	/	-1.2	-1.5	-2.5	55	70	64	105	TO263-3L	暂未量产
P	Trench	AP20P06S	-20	-60	20	/	-1	—	-2.5	15	20	19	28	SOP-8L	暂未量产
P	Trench	AP25P06D	-25	-60	20	/	-1.2	-1.5	-2.5	32	42	44	55	TO252-3L	正常出货
P	Trench	AP25P06DF	-25	-60	20	/	-1.2	-1.5	-2.5	32	42	44	55	PDFN3*3-8L	暂未量产
P	Trench	AP25P06NF	-25	-60	20	/	-1.2	-1.5	-2.5	32	42	44	55	PDFN5*6-8L	暂未量产
P	Trench	AP30P06D	-30	-60	20	/	-1	-1.5	-2.5	21	25	26	33	TO252-3L	正常出货
P	Trench	AP30P06Y	-30	-60	20	/	-1	-1.5	-2.5	21	25	26	33	TO251-3L	正常出货
P	Trench	AP30P06NF	-30	-60	20	/	-1	-1.5	-2.5	21	25	26	33	PDFN5*6-8L	正常出货
P	Trench	AP30P06DF	-30	-60	20	/	-1	-1.5	-2.5	21	25	26	33	PDFN3*3-8L	正常出货
P	Trench	AP30P06S	-30	-60	20	/	-1.2	1.7	-2.5	9	12	11	15	SOP-8L	暂未量产
P	Trench	AP45P06F	-45	-60	20	/	-1	-1.6	-2.5	20	25	26	33	TO220F-3L	暂未量产
P	Trench	AP45P06DF	-25	-60	20	/	-1.2	-1.5	-2.5	21	25	25	33	PDFN5*6-8L	暂未量产
P	Trench	AP45P06NF	-25	-60	20	/	-1.2	-1.5	-2.5	21	25	25	33	PDFN5*6-8L	正常出货
P	Trench	AP45P06P	-45	-60	20	/	-1	-1.6	-2.5	20	25	26	33	TO220-3L	正常出货
P	Trench	AP45P06T	-45	-60	20	/	-1	-1.6	-2.5	20	25	26	33	TO263-3L	暂未量产
P	Trench	AP45P06D	-45	-60	20	/	-1	-1.6	-2.5	20	25	26	33	TO252-3L	正常出货
P	Trench	AP50P06D	-50	-60	20	/	-1	-1.8	-2.5	12	16	15	18	TO252-3L	正常出货
P	Trench	AP50P06NF	-50	-60	20	/	-1	-1.8	-2.5	12	16	15	18	PDFN5*6-8L	暂未量产
P	Trench	AP50P06P	-50	-60	20	/	-1	-1.8	-2.5	12	16	15	18	TO220-3L	正常出货
P	Trench	AP50P06T	-50	-60	20	/	-1	-1.8	-2.5	12	16	15	18	TO263-3L	正常出货
P	Trench	AP70P06D	-70	-60	20	/	-1	-1.8	-2.5	11	13	13	16	TO252-3L	正常出货
P	Trench	AP70P06P	-70	-60	20	/	-1	-1.8	-2.5	11	13	13	16	TO220-3L	正常出货
P	Trench	AP70P06T	-70	-60	20	/	-1	-1.8	-2.5	11	13	13	16	TO263-3L	正常出货
P	Trench	AP70P06NF	-70	-60	20	/	-1	-1.8	-2.5	11	13	13	16	PDFN5*6-8L	正常出货
P	SGT II	AP80P06D	-80	-60	20	/	-1.2	-1.8	-2.5	9	11	12	16	TO252-3L	正常出货
P	SGT II	AP80P06NF	-80	-60	20	/	-1.2	-1.8	-2.5	9	11	12	16	PDFN5*6-8L	正常出货
P	SGT II	AP80P06P	-80	-60	20	/	-1	-2.1	-3	10	12	13	16	TO220-3L	正常出货
P	SGT II	AP80P06T	-80	-60	20	/	-1	-2.1	-3	10	12	13	16	TO263-3L	正常出货
P	Trench	AP100P06D	-100	-60	20	/	-1	-1.8	-3	6.7	10	8	14	TO252-3L	正常出货
P	Trench	AP100P06P	-100	-60	20	/	-1	-1.8	-3	6.7	10	8	14	TO220-3L	正常出货
P	Trench	AP100P06T	-100	-60	20	/	-1	-1.8	-3	6.7	10	8	14	TO263-3L	正常出货
P	Trench	AP100P06NF	-100	-60	20	/	-1	-1.8	-3	6.7	10	8	14	PDFN5*6-8L	正常出货
P	SGT II	AP120P06P	-120	-60	20	/	-1	-2	-3	5.5	6.5	7.5	10	TO220-3L	正常出货
P	SGT II	AP120P06T	-120	-60	20	/	-1	-2	-3	5.5	6.5	7.5	10	TO263-3L	正常出货
P	Trench	AP150P06T	-150	-60	20	/	-1	-1.8	-3	3.7	4.7	5.5	6.5	TO263-3L	正常出货
P	Trench	AP150P06P	-150	-60	20	/	-1	-1.8	-3	3.7	4.7	5.5	6.5	TO220-3L	正常出货
P	Trench	AP100P08D	-100	-80	20	/	-1.2	-1.8	-2	9.5	12	12	15	TO252-3L	暂未量产



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP100P08NF	-100	-80	20	/	-1.2	-1.8	-2	9.5	12	12	15	PDFN5*6-8L	暂未量产
P	Trench	AP100P08P	-100	-80	20	/	-1.2	-1.8	-2	9.5	12	12	15	TO220-3L	暂未量产
P	Trench	AP100P08T	-100	-80	20	/	-1.2	-1.8	-2	9.5	12	12	15	TO263-3L	暂未量产
P	Trench	AP01P10I	-0.9	-100	20	/	-1	-1.5	-2.5	520	650	560	700	SOT23L	正常出货
P	Trench	AP3P10MSI	-3	-100	20	/	-1.2	-1.5	-2.5	520	650	560	700	SOT223-3L	正常出货
P	Trench	AP3P10MI	-3	-100	20	/	-1.2	-1.9	-2.5	260	350	320	400	SOT23-3L	正常出货
P	Trench	AP3P10S	-3	-100	20	/	-1	-1.5	-2.5	450	600	560	700	SOP-8L	正常出货
P	Trench	AP5P10SI	-5.6	-100	20	/	-1.2	-1.8	-2.5	325	400	320	420	SOT89-3L	正常出货
P	Trench	AP8P10MSI	-8.2	-100	20	/	-1.2	-1.8	-2.5	325	400	320	420	SOT223-3L	正常出货
P	Trench	AP8P10S	-8	-100	20	/	-1.2	-1.8	-2.5	83	110	95	120	SOP-8L	正常出货
P	Trench	AP10P10D	-10	-100	20	/	-1.2	-1.8	-2.5	325	400	320	420	TO252-3L	正常出货
P	Trench	AP15P10D	-15	-100	20	/	-1.2	—	-2.5	145	185	170	200	TO252-3L	正常出货
P	Trench	AP15P10Y	-15	-100	20	/	-1	—	-2.5	145	185	170	200	TO251-3L	正常出货
P	Trench	AP30P10BD	-28	-100	20	/	-1.2	-1.6	-2.5	80	100	88	120	TO252-3L	正常出货
P	Trench	AP30P10D	-30	-100	20	/	-1.2	-1.7	-2.5	68	95	78	110	TO252-3L	正常出货
P	Trench	AP30P10P	-30	-100	20	/	-1.2	-1.5	-2.5	78	95	86	110	TO220-3L	正常出货
P	Trench	AP30P10NF	-30	-100	20	/	-1	-1.5	-3	68	95	78	110	PDFN5*6-8L	正常出货
P	Trench	AP40P10D	-40	-100	20	/	-1	-1.6	-2.5	48	60	65	75	TO252-3L	正常出货
P	Trench	AP40P10P	-40	-100	20	/	-1	-1.6	-2.5	48	60	65	75	TO220-3L	暂未量产
P	Trench	AP40P10NF	-40	-100	20	/	-1	-1.6	-2.5	48	60	65	75	PDFN5*6-8L	暂未量产
P	Trench	AP50P10D	-50	-100	20	/	-1	-1.6	-2.5	40	52	44	62	TO252-3L	正常出货
P	Trench	AP50P10NF	-50	-100	20	/	-1	-1.6	-2.5	40	52	44	62	PDFN5*6-8L	正常出货
P	Trench	AP50P10P	-50	-100	20	/	-1.2	-1.6	-2.5	40	52	44	62	TO220-3L	正常出货
P	Trench	AP50P10T	-50	-100	20	/	-1.2	-1.6	-2.5	40	52	44	62	TO263-3L	正常出货
P	Trench	AP80P10D	-80	-100	20	/	-1	-1.6	-2.5	19	25	25	30	TO252-3L	正常出货
P	Trench	AP80P10P	-80	-100	20	/	-1	-1.6	-2.5	19	25	25	30	TO220-3L	正常出货
P	Trench	AP80P10T	-80	-100	20	/	-1	-1.6	-2.5	19	25	25	30	TO263-3L	正常出货
P	Trench	AP80P10NF	-80	-100	20	/	-1	-1.6	-2.5	19	25	25	30	PDFN5*6-8L	暂未量产
P	Trench	AP100P10P	-100	-100	20	/	-1	-1.6	-2.5	12	16	15	20	TO220-3L	暂未量产
P	Trench	AP100P10T	-100	-100	20	/	-1	-1.6	-2.5	12	16	15	20	TO263-3L	暂未量产
P	Trench	AP50P12NF	-120	-50	20	/	-1.2	-1.8	-2.5	45	52	55	65	PDFN5*6-8L	暂未量产
P	Trench	AP50P12D	-120	-50	20	/	-1.2	-1.8	-2.5	45	52	55	65	TO252-3L	正常出货
P	Trench	AP50P12P	-120	-50	20	/	-1.2	-1.8	-2.5	45	52	55	65	TO220-3L	暂未量产
P	Trench	AP50P12T	-120	-50	20	/	-1.2	-1.8	-2.5	45	52	55	65	TO263-3L	暂未量产
P	Trench	AP100P12P	-120	-100	20	/	-1.2	-1.8	-2.5	21	28	30	40	TO220-3L	暂未量产
P	Trench	AP100P12T	-120	-100	20	/	-1.2	-1.8	-2.5	21	28	30	40	TO263-3L	暂未量产
P	Trench	AP2P15LI	-2.7	-150	20	/	-2	-3	-4	620	780	700	980	SOT23-6L	正常出货
P	Trench	AP2P15MI	-2.7	-150	20	/	-2	-3	-4	620	780	700	980	SOT23-3L	正常出货
P	Trench	AP4P15DF	-4	-150	20	/	-2	-3	-4	620	780	700	980	PDFN3*3-8L	正常出货
P	Trench	AP6P15S	-6	-150	20	/	-2	-3	-4	270	320	300	500	SOP-8L	正常出货
P	Trench	AP7P15D	-7	-150	20	/	-2	-3	-4	620	780	700	980	TO252-3L	正常出货
P	Trench	AP7P15Y	-7	-150	20	/	-2	-3	-4	620	780	700	980	TO251-3L	正常出货



Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min (V)			Min	Typ	Max	Typ	Max	Typ	Max		
P	Trench	AP15P15D	-15	-150	20	/	-2	-3	-4	270	320	300	500	TO252-3L	暂未量产
P	Trench	AP15P15Y	-15	-150	20	/	-2	-3	-4	270	320	300	500	TO251-3L	暂未量产
P	Trench	AP15P15DF	-15	-150	20	/	-2	-3	-4	270	320	300	500	PDFN3*3-8L	正常出货
P	Trench	AP15P15NF	-15	-150	20	/	-2	-3	-4	270	320	300	500	PDFN5*6-8L	正常出货
P	Trench	AP20P10D	-20	-150	20	/	1	2	3	130	160	/	/	TO252-3L	暂未量产
P	Trench	AP20P10Y	-20	-150	20	/	1	2	3	130	160	/	/	TO251-3L	暂未量产
P	Trench	AP30P15D	-30	-150	20	/	-2	-3	-4	130	175	/	/	TO252-3L	暂未量产
P	Trench	AP30P15Y	-30	-150	20	/	-2	-3	-4	130	175	/	/	TO251-3L	暂未量产
P	Planar	AP4P20D	-4	-200	20	/	-2	-3.5	-4	1400	1700	—	—	TO252-3L	正常出货
P	Planar	AP4P20F	-4	-200	20	/	-2	-3.5	-4	1400	1500	—	—	TO220F-3L	正常出货
P	Planar	AP9P20D	-9	-200	20	/	-2	-3.5	-4	625	750	—	—	TO252-3L	正常出货
P	Trench	AP10P20D	-10	-200	20	/	-2	-3	-4	625	850	880	1100	TO252-3L	正常出货
P	Trench	AP10P20NF	-10	-200	20	/	-2	-3	-4	625	850	880	1100	PDFN5*6-8L	正常出货
P	Planar	AP9P20P	-9	-200	20	/	-2	-3	-4	625	750	—	—	TO220-3L	正常出货
P	Planar	AP13P20D	-13	-200	20	/	-2	—	-4	340	420	—	—	TO252-3L	正常出货
P	Planar	AP13P20T	-13	-200	20	/	-2	—	-4	340	420	—	—	TO220-3L	正常出货
P	Planar	AP13P20P	-13	-200	20	/	-2	—	-4	340	420	—	—	TO220-3L	正常出货
P	Planar	AP18P20P	-18	-200	20	/	-2	-3	-4	230	300	—	—	TO220-3L	正常出货
P	Planar	AP03P35MI	-0.3	-350	20	/	-1	-2	-3	13	22	—	—	SOT23-3L	正常出货

增强型 N-MOSFET

Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			(A)	Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP2310MI	8	12	12	/	0.5	0.6	1.2	—	—	12	15	SOT23-3L	正常出货
N	Trench	AP2314MI	10	12	12	/	0.5	0.6	1.2	—	—	7	9	SOT23-3L	暂未量产
N	Trench	AP2222D-L	40	12	12	/	0.5	0.6	1.2	—	—	10	15	TO252-3L	正常出货
N	Trench	AP2334CI	0.75	20	8	1000	0.35	—	1.1	—	—	80	380	SOT-523	暂未量产
N	Trench	AP2300AI	4.5	20	12	/	0.5	0.75	1.2	—	—	22	30	SOT23L	正常出货
N	Trench	AP2300BI	2.8	20	12	/	0.52	0.66	0.9	—	—	43	56	SOT23L	正常出货
N	Trench	AP2300MI	3.3	20	12	/	0.5	0.75	1.2	—	—	23	32	SOT23-3L	正常出货
N	Trench	AP2302AI	4.2	20	12	/	0.5	0.75	1.2	—	—	24	32	SOT23L	正常出货
N	Trench	AP2302BI	3.2	20	12	/	0.5	0.66	0.9	—	—	43	50	SOT23L	正常出货
N	Trench	AP2302CI	2.8	20	12	/	0.45	0.58	0.9	—	—	48	52	SOT23L	正常出货
N	Trench	AP2302DI	2.3	20	12	/	0.52	0.66	0.9	—	—	52	60	SOT23L	正常出货
N	Trench	AP2312AI	6.8	20	12	/	0.5	0.65	1	—	—	12	18	SOT23L	正常出货
N	Trench	AP2312BI	6.2	20	12	/	0.5	0.6	1.2	—	—	16	20	SOT23L	正常出货
N	Trench	AP2312CI	5.8	20	12	/	0.5	0.6	1.2	—	—	18	22	SOT23L	正常出货
N	Trench	AP2312MI	6.8	20	12	/	0.5	0.65	1	—	—	12	18	SOT23-3L	正常出货
N	Trench	AP2312MI-L	6.2	20	12	/	0.5	0.6	1.2	—	—	16	20	SOT23-3L	正常出货
N	Trench	AP2320MI	8	20	12	/	0.5	0.65	1.2	—	—	8.5	12	SOT23-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP3400DI	3.2	20	12	/	0.4	0.6	1.1	—	—	45	55	SOT23L	正常出货
N	Trench	AP3416AI	6.8	20	12	2500	0.5	0.65	1	—	—	15	22	SOT23L	正常出货
N	Trench	AP3416MI	6.5	20	12	2500	0.45	0.7	1	—	—	17	27	SOT23-3L	正常出货
N	Trench	AP10N02MI	10	20	12	/	0.5	0.75	1.2	—	—	11	12	SOT23-3L	暂未量产
N	Trench	AP15N02S	15	20	12	/	0.4	0.7	1.1	—	—	6.3	8	SOP-8L	正常出货
N	Trench	AP20N02BF	20	20	12	/	0.5	0.65	1	—	—	11	15	QFN2*2-6L	正常出货
N	Trench	AP20N02D	20	20	12	/	0.5	0.65	1	—	—	18	25	TO252-3L	暂未量产
N	Trench	AP20N02DF	20	20	12	/	0.4	0.7	1.1	—	—	6.1	8.0	PDFN3*3-8L	正常出货
N	Trench	AP30N02BF	30	20	12	/	0.5	0.75	1.2	—	—	8.5	10.5	QFN2*2-6L	正常出货
N	Trench	AP30N02D	30	20	12	/	0.5	0.65	1	—	—	11	15	TO252-3L	正常出货
N	Trench	AP30N02DF	30	20	12	/	0.5	0.65	1	—	—	11	15	PDFN3*3-8L	正常出货
N	Trench	AP30N02S	30	20	12	/	0.5	0.68	1	—	—	3.2	4.5	SOP-8L	正常出货
N	Trench	AP40N02D	40	20	12	/	0.5	0.7	1.2	—	—	6.2	8.5	TO252-3L	正常出货
N	Trench	AP40N02DF	40	20	12	/	0.5	0.6	1.2	—	—	8.5	5.5	PDFN3*3-8L	暂未量产
N	Trench	AP2222D	50	20	12	/	0.5	0.75	1.2	—	—	8.5	10.5	TO252-3L	正常出货
N	Trench	AP50N02DF	53	20	12	/	0.5	0.7	1.2	—	—	6.2	8.5	PDFN3*3-8L	正常出货
N	Trench	AP50N02NF	53	20	12	/	0.5	0.7	1.2	—	—	6.2	8.5	PDFN5*6-8L	投产中
N	Trench	AP60N02BD	60	20	12	/	0.5	0.7	1.2	—	—	4.8	6.5	TO252-3L	正常出货
N	Trench	AP60N02D	60	20	12	/	0.5	0.7	1.2	—	—	4.1	5.5	TO252-3L	正常出货
N	Trench	AP60N02DF	60	20	12	/	0.5	0.75	1	—	—	4.8	6	PDFN3*3-8L	正常出货
N	Trench	AP60N02NF	60	20	12	/	0.5	0.75	1	—	—	4.8	6	PDFN5*6-8L	正常出货
N	Trench	AP70N02DF	70	20	12	/	0.5	0.7	1.2	—	—	3.8	5.5	PDFN3*3-8L	正常出货
N	Trench	AP70N02NF	70	20	12	/	0.5	0.7	1.2	—	—	3.8	5.5	PDFN5*6-8L	正常出货
N	Trench	AP80N02DF	80	20	12	/	0.4	—	1	—	—	1.5	2	PDFN3*3-8L	正常出货
N	Trench	AP80N02D	80	20	12	/	0.5	0.68	1	—	—	3.9	4.8	TO252-3L	停产
N	Trench	AP80N02NF	80	20	12	/	0.5	0.65	1	—	—	2.8	4	PDFN5*6-8L	正常出货
N	Trench	AP90N02D	90	20	12	/	0.5	0.68	1	—	—	2.8	3.5	TO252-3L	正常出货
N	Trench	AP90N02NF	90	20	12	/	0.5	0.68	1	1.6	2	1.9	2.5	PDFN5*6-8L	正常出货
N	Trench	AP100N02DF	100	20	12	/	0.5	0.68	1	—	—	2.7	3.0	PDFN3*3-8L	正常出货
N	Trench	AP120N02D	100	20	12	/	0.5	0.7	0.9	1.6	2	1.9	2.5	TO252-3L	正常出货
N	Trench	AP3400CI	4.2	30	12	/	0.5	0.9	1.4	32	42	36	48	SOT23L	正常出货
N	Trench	AP3400BI	5.8	30	12	/	0.5	0.95	1.2	26	28	29	32	SOT23L	正常出货
N	Trench	AP3400AI	6.2	30	12	/	0.5	0.85	1.2	20	28	31	55	SOT23L	正常出货
N	Trench	AP3400MI-L	5.8	30	12	/	0.5	0.9	1.5	26	28	28	32	SOT23-3L	正常出货
N	Trench	AP3400MI	6.2	30	12	/	0.5	—	1.2	21	25	23	31	SOT23-3L	正常出货
N	Trench	AP3404BI	5.8	30	20	/	1.2	1.5	2.5	29	38	45	65	SOT23L	正常出货
N	Trench	AP3404AI	7	30	20	/	0.8	1.4	2.2	24	28	26	32	SOT23L	正常出货
N	Trench	AP3404MI-L	5	30	20	/	1.2	1.6	2.5	22	25	24	35	SOT23-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP3404MI	8	30	20	/	1.2	1.6	2.5	15	20	25	32	SOT23-3L	正常出货
N	Trench	AP3410MI	13	30	20	/	1.2	1.6	2.5	11	15	18	25	SOT23-3L	正常出货
N	Trench	AP3412MI	18	30	20	/	1.2	1.5	2.5	8.5	12	14	20	SOT23-3L	暂未量产
N	Trench	AP4406A	12	30	20	/	1.2	1.6	2.5	8.5	12	13	18	SOP-8L	正常出货
N	Trench	AP4406B	10	30	20	/	1.2	1.6	2.5	15.6	25	28.5	38	SOP-8L	正常出货
N	Trench	AP6N03LI	6	30	12	/	0.5	0.9	1.5	20	28	25	32	SOT23-6L	正常出货
N	Trench	AP6N03SI	6	30	12	/	0.5	0.9	1.5	—	—	29	35	SOT89-3L	正常出货
N	Trench	AP10N03LI	10	30	20	/	1.2	1.6	2.5	17	20	25	30	SOT23-6L	正常出货
N	Trench	AP10N03SI	10	30	20	/	1.2	1.6	2.5	17	20	25	30	SOT89-3L	正常出货
N	Trench	AP18N03D	18	30	12	/	0.5	0.9	1.3	18	25	21	31	TO252-3L	正常出货
N	Trench	AP20N03D-L	20	30	20	/	1.2	1.5	2.5	20	25	30	35	TO252-3L	正常出货
N	Trench	AP20N03D	20	30	20	/	1.2	1.5	2.5	15.5	25	28.5	38	TO252-3L	正常出货
N	Trench	AP30N03DF	30	30	20	/	1.2	1.6	2.5	15.6	25	28.5	38	PDFN3*3-8L	正常出货
N	Trench	AP30N03SI	30	30	20	/	1.2	1.6	2.5	8.5	12	13	18	SOT89-3L	正常出货
N	Trench	AP40N03S	40	30	20	/	1.2	1.5	2.5	7.5	9	11	14	SOP-8L	正常出货
N	Trench	AP50N03AD	50	30	20	/	1.2	1.6	2.5	9.5	13	11	18	TO252-3L	正常出货
N	Trench	AP50N03BF	50	30	20	/	1.2	1.6	2.5	8.0	10	11	16	QFN2*2-6L	正常出货
N	Trench	AP50N03DF	50	30	20	/	1.2	1.6	2.5	10.5	12	15.5	19	PDFN3*3-8L	正常出货
N	Trench	AP50N03P	50	30	20	/	1.2	1.6	2.5	10	15	18	22	TO220-3L	停产
N	Trench	AP50N03S	50	30	20	/	1.2	1.6	2.5	5.5	6	7.2	9	SOP-8L	正常出货
N	Trench	AP50N03D	58	30	20	/	1.2	1.5	2.5	7.5	10	11	16	TO252-3L	正常出货
N	Trench	AP60N03D	60	30	20	/	1	1.6	2.5	6	8.5	8	13	TO252-3L	正常出货
N	Trench	AP60N03DF	60	30	20	/	1	1.6	2.5	6	8.5	8	13	PDFN3*3-8L	正常出货
N	Trench	AP60N03F	60	30	20	/	1	1.6	2.5	6	8.5	8	13	TO220F-3L	正常出货
N	Trench	AP60N03NF	60	30	20	/	1	1.6	2.5	6	8.5	8	13	PDFN5*6-8L	正常出货
N	Trench	AP60N03P	60	30	20	/	1	1.6	2.5	6	8.5	8	13	TO220-3L	正常出货
N	Trench	AP60N03T	60	30	20	/	1	1.6	2.5	6	8.5	8	13	TO263-3L	暂未量产
N	Trench	AP60N03Y	60	30	20	/	1	1.6	2.5	7.5	13	11	18	TO251-3L	正常出货
N	Trench	AP65N03DF	65	30	20	/	1.2	1.6	2.5	4	5.5	6.1	8.5	PDFN3*3-8L	正常出货
N	SGT II	AP68N03DF	68	30	20	/	1.2	1.6	2.5	6.9	8.5	10.5	15	PDFN3*3-8L	正常出货
N	SGT II	AP68N03NF	68	30	20	/	1.2	1.6	2.5	6.9	8.5	10.5	15	PDFN5*6-8L	正常出货
N	Trench	AP70N03DF	70	30	20	/	1.2	1.5	2.5	3.5	4.5	6.5	8.5	PDFN3*3-8L	正常出货
N	Trench	AP70N03NF	70	30	20	/	1	1.6	2.5	3.6	4.5	6.5	8.5	PDFN5*6-8L	正常出货
N	Trench	AP75N03DF	75	30	20	/	1.2	1.6	2.5	4.8	6	7.5	9.0	PDFN3*3-8L	正常出货
N	Trench	AP80N03D	80	30	20	/	1	1.6	2.5	4	6.5	6.1	8.5	TO252-3L	正常出货
N	Trench	AP80N03BD	80	30	20	/	1	1.6	2.5	4.5	5.5	7.3	9.5	TO252-3L	正常出货
N	Trench	AP80N03DF	80	30	20	/	1	1.5	2.5	3.3	4	5.5	6.5	PDFN3*3-8L	正常出货
N	Trench	AP80N03NF	80	30	20	/	1	1.5	2.5	2.9	4	5.3	6.5	PDFN5*6-8L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP80N03Y	80	30	20	/	1	1.6	2.5	4	6.5	6.1	8.5	TO251-3L	正常出货
N	Trench	AP85N03NF	85	30	20	/	1.2	1.6	2.5	2.3	4	4.3	6	PDFN5*6-8L	正常出货
N	Trench	AP90N03D	90	30	20		1	1.4	2.5	3.9	5.5	4.7	6	TO252-3L	暂未量产
N	Trench	AP90N03NF	90	30	20	/	1	1.6	2.5	4.5	6.5	8.5	10	PDFN5*6-8L	正常出货
N	SGT V	AP100N03NF	100	30	20	/	1.2	1.6	2.5	3.8	4.8	6	8	PDFN5*6-8L	正常出货
N	Trench	AP100N03AD	100	30	20	/	1	1.5	2.5	4.8	6	7.5	12	TO252-3L	暂未量产
N	Trench	AP100N03D	100	30	20	/	1	1.6	2.5	3.1	4.2	4.9	8.5	TO252-3L	正常出货
N	Trench	AP100N03P	100	30	20	/	1.2	1.6	2.5	4.5	5.5	8	9.5	TO220-3L	正常出货
N	Trench	AP100N03T	100	30	20	/	1.2	1.6	2.5	4.5	5.5	8	9.5	TO263-3L	正常出货
N	Trench	AP100N03Y	100	30	20	/	1	1.5	2.5	4.5	6.5	7.5	12	TO251-3L	正常出货
N	Trench	AP110N03NF	110	30	20	/	1.3	1.9	2.5	1.7	2.2	3	3.9	PDFN5*6-8L	正常出货
N	Trench	AP120N03D	110	30	20	/	1.2	1.5	2.5	2.3	3.5	4	5	TO252-3L	正常出货
N	Trench	AP120N03NF	120	30	20	/	1.2	1.5	2.5	1.5	2.4	2.5	4.5	PDFN5*6-8L	正常出货
N	Trench	AP135N03NF	135	30	20	/	1.2	1.6	2.5	1.3	1.6	1.9	2.5	PDFN5*6-8L	正常出货
N	Trench	AP150N03D	150	30	20	/	1	—	2.5	2.2	3	3.2	4	TO252-3L	正常出货
N	Trench	AP150N03NF	150	30	20	/	1.2	1.6	2.5	1.4	2	2.3	3.2	PDFN5*6-8L	正常出货
N	Trench	AP150N03P	150	30	20	/	1	—	2.5	—	4	—	6	TO220-3L	正常出货
N	Trench	AP150N03T	150	30	20	/	1	—	2.5	—	4	—	6	TO263-3L	正常出货
N	Trench	AP180N03D	180	30	20	/	1.2	1.6	2.5	2.1	3.2	3	3.8	TO252-3L	正常出货
N	Trench	AP180N03NF	180	30	20	/	1.2	1.5	2.5	0.8	1.2	1.5	1.9	PDFN5*6-8L	暂未量产
N	Trench	AP180N03P	180	30	20	/	1.2	1.6	2.5	2.1	3.2	3	3.8	TO220-3L	正常出货
N	Trench	AP180N03T	180	30	20	/	1.2	1.6	2.5	2.1	3.2	3	3.8	TO263-3L	正常出货
N	Trench	AP200N03P	200	30	20	/	1.2	1.6	2.5	1.9	2.5	3	3.8	TO220-3L	正常出货
N	Trench	AP200N03T	200	30	20	/	1.2	1.6	2.5	1.9	2.5	3	3.8	TO263-3L	正常出货
N	Trench	AP280N03T	280	30	20	/	1.2	1.6	2.5	1.5	2	2.2	3	TO263-3L	正常出货
N	Trench	AP3N04AI	3	40	20	/	1.2	1.5	2.5	33	40	45	55	SOT23L	正常出货
N	Trench	AP5N04MI	5	40	20	/	1	1.5	2.5	30	37	40	50	SOT23-3L	正常出货
N	Trench	AP6N04SI	6	40	20	/	1	1.5	2.5	28	40	35	50	SOT89-3L	正常出货
N	Trench	AP8N04MI	8	40	20	/	1.2	1.5	2.5	18	20	20	25	SOT23-3L	正常出货
N	Trench	AP10N04SI	8	40	20	/	1.2	1.4	2.5	18	22	23	30	SOT89-3L	正常出货
N	Trench	AP10N04MSI	10	40	20	/	1	—	2.5	15	20	18	25	SOT223-3L	正常出货
N	Trench	AP10N04S	10	40	20	/	1	—	2.5	14.5	17	18	22	SOP-8L	正常出货
N	Trench	AP15N04S	15	40	20	/	1	1.6	2.5	10.5	13	11.5	17	SOP-8L	正常出货
N	Trench	AP25N04D	25	40	20	/	1	1.5	2.5	23	30	37	45	TO252-3L	正常出货
N	Trench	AP25N04S	25	40	20	/	1	1.5	2.5	5.5	7	6.5	10	SOP-8L	正常出货
N	Trench	AP40N04D	30	40	20	/	1.2	1.5	2.5	18	20	20	25	TO252-3L	暂未量产
N	Trench	AP50N04D	50	40	20	/	1.2	1.6	2.5	13.5	17	18.4	24	TO252-3L	正常出货
N	SGT II	AP50N04S	50	40	20	/	1.2	1.6	2.2	2.5	3.5	3.8	5	SOP-8L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP60N04D	60	40	20	/	1	1.5	2.5	14.5	18.5	17.5	20.5	TO252-3L	正常出货
N	Trench	AP60N04P	60	40	20	/	1	1.5	2.5	14.5	18.5	17.5	20.5	TO220-3L	正常出货
N	Trench	AP60N04T	60	40	20	/	1	1.5	2.5	14.5	18.5	17.5	20.5	TO263-3L	正常出货
N	Trench	AP60N04DF	60	40	20	/	1	1.5	2.5	12.5	15.5	14.5	20	PDFN3*3-8L	正常出货
N	Trench	AP60N04NF	60	40	20	/	1	1.6	2.5	10.5	13.5	13.5	16.5	PDFN5*6-8L	正常出货
N	Trench	AP65N04DF	65	40	20	/	1.2	1.6	2.5	8	10	10	13	PDFN3*3-8L	正常出货
N	Trench	AP65N04NF	65	40	20	/	1.2	1.6	2.5	7.7	9	9.4	12	PDFN5*6-8L	正常出货
N	SGT II	AP68N04DF	68	40	20	/	1.2	1.6	2.5	6.9	8.5	10.5	15	PDFN3*3-8L	正常出货
N	SGT II	AP68N04NF	68	40	20	/	1.2	1.6	2.5	6.9	8.5	10.5	15	PDFN5*6-8L	正常出货
N	Trench	AP70N04DF	70	40	20	/	1	1.7	2.5	5.5	7	9	12	PDFN3*3-8L	正常出货
N	Trench	AP70N04NF	70	40	20	/	1	1.7	2.5	5.5	7	9	12	PDFN5*6-8L	正常出货
N	Trench	AP75N04DF	75	40	20	/	1.2	1.6	2.5	4.5	5.5	2.8	7.6	PDFN3*3-8L	正常出货
N	Trench	AP75N04NF	75	40	20	/	1.2	1.6	2.5	4.5	5.5	2.8	7.6	PDFN5*6-8L	正常出货
N	Trench	AP80N04D-L	80	40	20	/	1.2	1.6	2.5	7.7	9	9.4	12	TO252-3L	正常出货
N	Trench	AP80N04D	80	40	20	/	1	1.5	2.5	6	7.5	9	12	TO252-3L	正常出货
N	Trench	AP80N04Y	80	40	20	/	1	1.5	2.5	6	7.5	9	12	TO251-3L	正常出货
N	Trench	AP80N04P	80	40	20	/	1	1.5	2.5	6	7.5	9	12	TO220-3L	正常出货
N	Trench	AP80N04T	80	40	20	/	1	1.5	2.5	6	7.5	9	12	TO263-3L	正常出货
N	Trench	AP80N04DF	80	40	20	/	1	—	2.5	4.8	6.5	7.2	9	PDFN3*3-8L	正常出货
N	Trench	AP85N04NF	85	40	20	/	1	1.6	2.5	3.8	5.5	6.4	8.5	PDFN5*6-8L	正常出货
N	Trench	AP90N04D	90	40	20	/	1	1.6	2.5	4.7	6	6	8	TO252-3L	暂未量产
N	Trench	AP100N04D	100	40	20	/	1	—	2.5	4.5	6.5	5.1	6.8	TO252-3L	正常出货
N	SGT II	AP100N04NF	100	40	20	/	1.2	1.7	2.5	2.5	3.2	3.8	5.3	PDFN5*6-8L	正常出货
N	Trench	AP110N04D	110	40	20	/	1.2	1.6	2.5	3.5	4.3	5.4	7.5	TO252-3L	正常出货
N	Trench	AP110N04NF	110	40	20	/	1.2	1.6	2.5	3.5	4.3	5.4	7.5	PDFN5*6-8L	正常出货
N	SGT II	AP120N04D	120	40	20	/	1.2	1.7	2.2	2.5	3.5	3.8	5.3	TO252-3L	正常出货
N	Trench	AP120N04D-H	120	40	20	/	2	3	4	2.8	3.5	3.6	5	TO252-3L	停产
N	SGT II	AP120N04NF	120	40	20	/	1.2	1.7	2.5	1.8	2.3	2.8	3.5	PDFN5*6-8L	正常出货
N	Trench	AP120N04F	120	40	20	/	1.2	1.6	2.5	3.5	4.3	5.4	7.5	TO220F-3L	正常出货
N	Trench	AP120N04P	120	40	20	/	2	2.8	4	3	4	—	—	TO220-3L	正常出货
N	Trench	AP120N04T	120	40	20	/	2	2.8	4	3	4	—	—	TO263-3L	正常出货
N	SGT II	APG120N04NF	120	40	20	/	1.2	1.6	2.5	1.4	1.8	2	2.6	PDFN5*6-8L	正常出货
N	Trench	AP140N04NF	140	40	20	/	1.2	1.8	2.5	2.4	2.9	3.5	4.5	PDFN5*6-8L	正常出货
N	SGT II	AP150N04D	150	40	20	/	1.2	1.6	2.5	2	2.3	2.7	3	TO252-3L	正常出货
N	SGT II	AP150N04Y	150	40	20	/	1.2	1.6	2.5	2	2.3	2.7	3	TO251-3L	正常出货
N	SGT II	AP150N04NF	150	40	20	/	2	3	4	1.2	1.5	—	—	PDFN5*6-8L	暂未量产
N	Trench	AP150N04P	150	40	20	/	1.2	1.8	2.5	2.4	2.9	3.5	4.5	TO220-3L	正常出货
N	Trench	AP150N04T	150	40	20	/	1.2	1.8	2.5	2.4	2.9	3.5	4.5	TO263-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP160N04P	160	40	20	/	1.2	1.6	2.2	1.9	3	2.3	3.5	TO220-3L	正常出货
N	Trench	AP160N04T	160	40	20	/	1.2	1.6	2.2	1.9	3	2.3	3.5	TO263-3L	正常出货
N	SGT V	APG180N04NF	180	40	20	/	1	1.8	2.5	1.15	1.5	1.7	2.5	PDFN5*6-8L	正常出货
N	SGT V	AP180N04NF	180	40	20	/	2	3	4	1.15	1.5	1.7	2.5	PDFN5*6-8L	暂未量产
N	SGT V	APG180N04P	180	40	20	/	1.3	—	2.5	1.5	2	2.5	3	TO220-3L	暂未量产
N	SGT V	APG180N04T	180	40	20	/	1.3	—	2.5	1.5	2	2.5	3	TO263-3L	暂未量产
N	SGT V	AP200N04NF	180	40	20	/	1.2	1.5	2.5	0.75	1	1.1	1.5	PDFN5*6-8L	正常出货
N	SGT V	AP200N04TLG5	200	40	20	/	1.3	1.5	2.5	1.9	2.5	2.7	4	TOLLA-8L	正常出货
N	Trench	AP220N04P	220	40	20	/	2	3	4	1	1.2	1.2	1.4	TO220-3L	暂未量产
N	Trench	AP220N04T	220	40	20	/	2	3	4	1	1.2	1.2	1.4	TO263-3L	暂未量产
N	SGT V	AP280N04P	280	40	20	/	1.2	1.8	2.5	1.2	1.5	1.7	2.3	TO220-3L	正常出货
N	SGT V	AP280N04T	280	40	20	/	1.2	1.8	2.5	1.2	1.5	1.7	2.3	TO263-3L	正常出货
N	SGT V	AP280N04T6	280	40	20	/	1.2	1.8	2.5	1.2	1.5	1.7	2.3	TO263-6L	正常出货
N	SGT V	AP280N04HT6	280	40	20	/	3	3	4	1.3	1.8	1.5	2.3	TO263-6L	正常出货
N	SGT V	AP280N04TLG5	280	40	20	/	3	3	4	1.3	1.5	1.8	2.3	TOLLA-8L	正常出货
N	SGT V	AP300N04HTLG5	300	40	20	/	2	2.9	4	1.0	1.25	/	/	TOLLA-8L	
N	SGT V	AP300N04TLG5	300	40	20	/	1.2	1.8	2.5	1	1.3	1.7	2.3	TOLLA-8L	正常出货
N	SGT V	AP320N04TLG5	320	40	20	/	1.3	1.5	2.5	1.1	1.5	1.4	1.8	TOLLA-8L	正常出货
N	SGT V	AP380N04SLG5	380	40	20	/	2	3	4	0.75	1	—	—	STOLL-6L	暂未量产
N	SGT V	AP420N04TLG5	420	40	20	/	1.3	1.5	2.5	0.75	1	1.2	1.5	TOLLA-8L	暂未量产
N	SGT V	AP500N04SLG5	600	40	20	/	1.2	1.5	2.5	0.5	0.75	1	1.2	TOLLA-8L	暂未量产
N	SGT V	AP600N04TLG5	600	40	20	/	1.2	1.5	2.5	0.5	0.75	1	1.2	TOLLA-8L	暂未量产
N	SGT V	AP200N05NF	200	45	20	/	1.2	1.5	2.5	0.75	0.9	1.1	1.5	PDFN5*6-8L	正常出货
N	SGT V	AP300N05TLG5	300	45	20	/	1.2	1.5	2.5	0.8	1	1.3	1.5	TOLLA-8L	正常出货
N	Trench	AP50N05D	50	50	20	/	1.2	1.4	2.5	15.5	19	18.5	24	TO252-3L	正常出货
N	Trench	AP80N05D	80	50	20	/	1.2	1.5	2.5	7.8	11	11.2	17	TO252-3L	正常出货
N	Planar	AP50N06CP	50	55	20	/	2	3	4	19	22	—	—	TO220-3L	暂未量产
N	Planar	AP60N06CP	50	55	20	/	2	3	4	14	22	—	—	TO220-3L	暂未量产
N	Planar	AP3205P	110	55	20	/	2	—	4	7.2	8	—	—	TO220-3L	暂未量产
N	Planar	AP3205T	110	55	20	/	2	—	4	7.2	8	—	—	TO263-3L	暂未量产
N	Trench	AP2N7002AI	0.3	60	20	2000	0.7	1.2	1.9	1000	2000	—	—	SOT23L	正常出货
N	Trench	AP2N06BI	2	60	20	/	1	1.6	2.5	135	180	165	225	SOT23L	正常出货
N	Trench	AP3N06I	3	60	20	/	1.2	—	2.5	80	100	85	110	SOT23L	正常出货
N	Trench	AP3N06MI	3	60	20	/	1.2	—	2.5	55	75	65	90	SOT23-3L	正常出货
N	Trench	AP4N06AI	4	60	20	/	0.9	1.3	2	62	85	85	120	SOT23L	正常出货
N	Trench	AP4N06SI	4.8	60	20	/	1.2	1.5	2.5	72	95	85	100	SOT89-3L	正常出货
N	Trench	AP5N06MI	5	60	20	/	1	1.76	2.5	28	38	35	50	SOT23-3L	正常出货
N	Trench	AP5N06MSI	5	60	20	/								SOT223-3L	暂未量产



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP5N06S	5	60	20	/	1.2	1.5	2.5	50	75	65	85	SOP-8L	暂未量产
N	Trench	AP5N06SI	5.8	60	20	/	1.2	1.6	2.5	65	80	75	90	SOT89-3L	暂未量产
N	Trench	AP6N06LI	6	60	20	/	1.2	1.6	2.5	36	40	40	48	SOT23-6L	暂未量产
N	Trench	AP8N06S	8	60	20	/	1.2	—	2.5	35	40	45	50	SOP-8L	暂未量产
N	Trench	AP8N06SI	8	60	20	/	1.2	1.6	2.5	28	40	33	45	SOT89-3L	正常出货
N	Trench	AP8N06MI	8	60	20	/	1.2	1.8	2.5	28	35	37	45	SOT23-3L	正常出货
N	Trench	AP10N06D	15	60	20	/	1	1.6	2.5	65	80	75	90	TO252-3L	正常出货
N	Trench	AP10N06MSI	10	60	20	/	1.2	1.6	2.5	28	35	38	45	SOT223-3L	正常出货
N	Trench	AP10N06S	10	60	20	/	1.2	—	2.5	35	40	43	50	SOP-8L	正常出货
N	Trench	AP12N06S	12	60	20	/	1.2	—	2.5	24	32	33	42	SOP-8L	正常出货
N	Trench	AP15N06S	15	60	20	/	1.2	—	2.5	15	18	18	20	SOP-8L	正常出货
N	Trench	AP20N06D	28	60	20	/	1.2	1.6	2.5	28	36	38	45	TO252-3L	正常出货
N	Trench	AP20N06BD	20	60	20	/	1.2	1.6	2.5	36	42	45	63	TO252-3L	正常出货
N	SGT I	APG20N06S	20	60	20	/	1.2	1.5	2.5	7.5	10	10	13	SOP-8L	正常出货
N	Trench	AP20N06S	20	60	20	/	2	3	4	7.8	10	—	—	SOP-8L	正常出货
N	Trench	AP30N06D	30	60	20	/	1.2	1.6	2.5	20	28	30	38	TO252-3L	正常出货
N	Trench	AP30N06BD	30	60	20	/	1.2	1.6	2.5	28	36	38	45	TO252-3L	正常出货
N	Trench	AP30N06DF	30	60	20	/	1.2	1.6	2.5	28	36	38	45	PDFN3*3-8L	正常出货
N	Trench	AP30N06P	30	60	20	/	1.2	1.6	2.5	28	36	38	45	TO220-3L	正常出货
N	Trench	AP30N06Y	20	60	20	/	1.2	1.6	2.5	28	36	38	45	TO251-3L	正常出货
N	Trench	AP40N06DF	40	60	20	/	1.2	1.6	2.5	20	28	30	38	PDFN3*3-8L	正常出货
N	Trench	AP50N06BD	50	60	20	/	1.2	1.6	2.5	16	20	20	25	TO252-3L	正常出货
N	Trench	AP50N06D	58	60	20	/	1.2	1.8	2.5	11	16	16	20	TO252-3L	正常出货
N	Trench	AP50N06DF	50	60	20	/	1.2	1.8	2.5	11	16	16	20	PDFN3*3-8L	正常出货
N	Trench	AP50N06NF	50	60	20	/	1.2	1.8	2.5	11.5	16	16.3	20	PDFN5*6-8L	正常出货
N	Trench	AP50N06P	50	60	20	/	1.2	—	2.5	13.5	2	—	—	TO220-3L	正常出货
N	Trench	AP50N06Y	50	60	20	/	1.2	1.8	2.5	14	20	18	25	TO251-3L	正常出货
N	Trench	AP60N06F	60	60	20	/	1.2	1.8	2.5	11	15	16	20	TO220F-3L	正常出货
N	Planar	AP65N06CP	65	60	20	/								TO220-3L	停产
N	Trench	AP65N06D	65	60	20	/	1.2	2	2.5	9	13	12	15	TO252-3L	停产
N	SGT I	AP65N06DF	65	60	20	/	1.2	1.5	2.5	7.5	10	10	13	PDFN3*3-8L	正常出货
N	SGT I	AP65N06NF	65	60	20	/	1.2	1.5	2.5	7.5	10	10	13	PDFN5*6-8L	正常出货
N	Trench	AP70N06HD	70	60	20	/	2	2.9	4	8	10	—	—	TO252-3L	正常出货
N	Trench	AP70N06HP	70	60	20	/	2	3	4	8	10	—	—	TO220-3L	正常出货
N	Trench	AP80N06BD	80	60	20	/	2	3	4	7.2	10	—	—	TO252-3L	正常出货
N	Trench	AP80N06D	80	60	20	/	1	2	2.5	8	10	10	13	TO252-3L	正常出货
N	SGT II	AP80N06NF	80	60	20	/	1	—	2.5	3.8	4.8	6.4	10	PDFN5*6-8L	正常出货
N	SGT II	AP80N06DF	80	60	20		1.2	1.7	2.5	4.7	4.8	5	6.8	PDFN3*3-8L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP80N06P	80	60	20	/	2	3	4	7.2	10	8.3	15	TO220-3L	正常出货
N	Trench	AP80N06T	80	60	20	/	2	3	4	7.2	10	8.3	15	TO263-3L	正常出货
N	Trench	AP90N06D	90	60	20	/	2	3	4	5.8	7	—	—	TO252-3L	正常出货
N	Trench	AP90N06NF	90	60	20	/	2	3	4	5.8	7	—	—	PDFN5*6-8L	正常出货
N	Trench	AP90N06F	90	60	20	/	2	3	4	5.8	7	—	—	TO220F-3L	正常出货
N	Trench	AP90N06P	90	60	20	/	2	3	4	5.8	7	—	—	TO220-3L	正常出货
N	Trench	AP90N06T	90	60	20	/	2	3	4	5.8	7	—	—	TO263-3L	正常出货
N	SGT II	AP100N06D	100	60	20	/	1.2	1.8	2.5	4.7	6	6.4	10	TO252-3L	正常出货
N	SGT II	AP100N06NF	100	60	20	/	1.2	1.8	2.5	3.5	4.2	4.5	5.2	PDFN5*6-8L	正常出货
N	SGT II	APG110N06D	110	60	20	/	1.2	—	2.3	3	3.6	4.4	5.4	TO252-3L	正常出货
N	SGT II	APG110N06NF	110	60	20	/	1.2	—	2.3	3	3.6	4.4	5.4	PDFN5*6-8L	正常出货
N	SGT I	AP120N06D	150	60	20	/	2	3	4	4	5.5	—	—	TO252-3L	正常出货
N	Trench	AP120N06MP	120	60	20	/	2	3	4	4.2	5.5	—	—	TO247-3L	暂未量产
N	Trench	AP120N06P	120	65	20	/	2	2.8	4	4.8	5.6	—	—	TO220-3L	正常出货
N	Trench	AP120N06T	120	65	20	/	2	2.8	4	4.8	5.6	—	—	TO263-3L	暂未量产
N	SGT I	APG130N06D	130	60	20	/	1.2	1.6	2.5	2.35	3.2	2.9	3.6	TO252-3L	正常出货
N	SGT I	APG130N06F	130	60	20	/	1.2	1.8	2.5	2.8	3.5	3.2	40	TO220F-3L	正常出货
N	SGT I	APG130N06NF	130	60	20	/	1.2	—	2.5	2.5	3	3.5	4.5	PDFN5*6-8L	正常出货
N	SGT I	APG130N06P	130	60	20	/	1.2	1.8	2.5	2.8	3.5	3.2	40	TO220-3L	正常出货
N	SGT I	APG130N06T	130	60	20	/	1.2	1.8	2.5	2.8	3.5	3.2	40	TO263-3L	正常出货
N	SGT I	AP150N06HP	150	60	20	/	2	3	4	4	5.5	—	—	TO220-3L	正常出货
N	SGT I	AP150N06NF	150	60	20	/	1.2	1.8	2.5	1.9	2.7	3	4	PDFN5*6-8L	正常出货
N	SGT I	AP150N06P	150	60	20	/	2	3	4	4.3	2.7	—	—	TO220-3L	正常出货
N	SGT I	AP200N06NF	300	60	20	/	1.2	1.8	2.5	1	1.5	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP220N06MP	220	60	20	/	2	2.6	4	2.4	3.2	—	—	TO247-3L	正常出货
N	SGT I	AP240N06P	240	60	20	/	2	2.8	4	2.4	3.2	—	—	TO220-3L	正常出货
N	SGT I	AP240N06T	240	60	20	/	2	2.8	4	2.4	3.2	—	—	TO263-3L	正常出货
N	SGT I	AP250N06GF	250	60	20	/	2	2.8	4	1.9	2.7	—	—	DFN8*8-4L	暂未量产
N	SGT I	AP250N06T6	250	60	20	/	2	2.8	4	2.1	3.2	—	—	TO263-6L	正常出货
N	SGT I	AP250N06TLG2	250	60	20	/	2	2.8	4	2.1	3.2	—	—	TOLLA-8L	正常出货
N	SGT I	AP280N06P	280	60	20	/	2	2.8	4	1.5	2	—	—	TO263-6L	正常出货
N	SGT I	AP280N06T	280	60	20	/	2	2.8	4	1.5	2	—	—	TO263-6L	正常出货
N	SGT I	AP300N06T6	300	60	20	/	2	2.8	4	1.2	1.8	—	—	TO263-6L	正常出货
N	SGT I	AP300N06SLG2	300	60	20	/	2	2.8	4	0.9	1.2	—	—	STOLL-6L	暂未量产
N	SGT I	AP300N06TLG2	300	60	20	/	2	2.8	4	1.2	1.8	—	—	TOLLA-8L	正常出货
N	SGT I	AP420N06P	420	60	20	/	2	2.8	4	1.5	2	—	—	TO220-3L	正常出货
N	SGT I	AP420N06T	420	60	20	/	2	2.8	4	1.5	2	—	—	TO263-3L	正常出货
N	SGT I	AP420N06T6	420	60	20	/	2	2.8	4	1.5	2	—	—	TO263-6L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT I	AP420N06SLG2	420	60	20	/	2	2.8	4	0.65	0.8	—	—	STOLL-6L	暂未量产
N	SGT I	AP420N06TLG2	420	60	20	/	2	2.8	4	1.5	2	—	—	TOLLA-8L	正常出货
N	SGT I	AP420N06MP	420	60	20	/	2	2.8	4	1.5	2	—	—	TO247-3L	暂未量产
N	Trench	AP80N07D	80	68	20	/	2	3	4	6.5	8.6	—	—	TO252-3L	正常出货
N	Trench	AP80N07F	80	68	20	/	2	3	4	7.5	9	—	—	TO220F-3L	正常出货
N	Trench	AP80N07NF	80	68	20	/	2	3	4	6.5	8.6	—	—	PDFN5*6-8L	正常出货
N	Trench	AP80N07P	80	68	20	/	2	3	4	7.2	9	—	—	TO220-3L	正常出货
N	Trench	AP80N07T	80	68	20	/	2	3	4	7.2	9	—	—	TO263-3L	正常出货
N	Trench	AP100N07D	100	68	20	/	2	3	4	6	7	—	—	TO252-3L	正常出货
N	Trench	AP100N07NF	100	68	20	/	2	3	4	6	7	—	—	PDFN5*6-8L	正常出货
N	Trench	AP100N07P	100	68	20	/	2	3	4	6	7	—	—	TO220-3L	正常出货
N	Trench	AP100N07T	100	68	20	/	2	3	4	6	7	—	—	TO263-3L	正常出货
N	Trench	AP120N07D	120	68	20	/	2	3	4	5.7	6.5	—	—	TO252-3L	正常出货
N	Trench	AP120N07F	120	68	20	/	2	3	4	5.7	6.5	—	—	TO220F-3L	正常出货
N	Trench	AP120N07NF	120	68	20	/	2	3	4	5.7	6.5	—	—	PDFN5*6-8L	正常出货
N	Trench	AP120N07P	120	68	20	/	2	3	4	5.7	6.5	—	—	TO220-3L	正常出货
N	Trench	AP120N07T	120	68	20	/	2	3	4	5.7	6.5	—	—	TO263-3L	正常出货
N	Trench	AP150N07D	150	68	20	/	2	3	4	4.8	6	—	—	TO252-3L	正常出货
N	Trench	AP150N07NF	150	68	20	/	2	3	4	4.8	6	—	—	PDFN5*6-8L	正常出货
N	Trench	AP150N07P	150	68	20	/	2	3	4	4.8	6	—	—	TO220-3L	正常出货
N	Trench	AP150N07T	150	68	20	/	2	3	4	4.8	6	—	—	TO263-3L	正常出货
N	Depletion	APD02N07AI	0.2	70	30	300	-13	-17	-21	15000	200000	160000	200000	SOT23L	暂未量产
N	Trench	AP80N08BD	80	80	20	/	2	—	4	7.5	9	—	—	TO252-3L	正常出货
N	Trench	AP80N08D	80	80	20	/	1	—	2.5	4.8	6.5	6.3	8.5	TO252-3L	正常出货
N	Trench	AP80N08P	80	80	20	/	2	—	4	7.5	9	—	—	TO220-3L	正常出货
N	Trench	AP80N08T	80	80	20	/	2	—	4	7.5	9	—	—	TO263-3L	正常投产
N	Trench	AP85N08BP	85	80	20	/	2	3	4	6.5	8.5	—	—	TO220-3L	正常出货
N	Trench	AP85N08BT	85	80	20	/	2	3	4	6.5	8.5	—	—	TO263-3L	正常出货
N	Trench	AP80N08NF	80	85	20	/	1.2	1.9	2.5	3.9	5.5	5.5	8.5	PDFN5*6-8L	正常出货
N	SGT I	AP90N08NF	90	85	20	/	2	3	4	4.5	5.2	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP100N08P	100	85	20	/	2	3	4	5.4	6.5	—	—	TO220-3L	准备投产
N	SGT I	AP100N08T	100	85	20	/	2	3	4	5.4	6.5	—	—	TO263-3L	准备投产
N	Planar	AP100N08CMP	100	80	20	/	1.2	1.7	2	13	15	—	—	TO247-3L	正常出货
N	Trench	AP100N08D	100	80	20	/	2	3	4	5.5	6.8	—	—	TO252-3L	正常出货
N	SGT I	AP120N08D	120	85	20	/	2	3	4	4.5	5.2	—	—	TO252-3L	正常出货
N	SGT I	AP120N08MP	120	80	20	/	2	3	4	4.5	5.2	—	—	TO247-3L	正常出货
N	SGT I	AP120N08P	120	85	20	/	2	3	4	4.5	5.2	—	—	TO220-3L	正常出货
N	SGT I	AP120N08T	120	85	20	/	2	3	4	4.5	5.2	—	—	TO263-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT I	AP120N08NF	100	85	20	/	2	3	4	3.2	4	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP140N08P	140	85	20	/	2	3	4	3.9	4.9	—	—	TO220-3L	正常出货
N	SGT I	AP140N08T	140	85	20	/	2	3	4	3.9	4.9	—	—	TO263-3L	正常出货
N	SGT I	AP160N08P	160	85	20	/	2	3	4	3.2	4	—	—	TO220-3L	正常出货
N	SGT I	AP160N08T	160	85	20	/	2	3	4	3.2	4	—	—	TO263-3L	正常出货
N	SGT I	AP180N08P	180	85	20	/	2	3	4	2.9	3.5	—	—	TO220-3L	正常出货
N	SGT I	AP180N08T	180	85	20	/	2	3	4	2.9	3.5	—	—	TO263-3L	正常出货
N	SGT I	AP200N08MP	200	85	20	/	2	3	4	2.6	3.5	—	—	TO247-3L	正常出货
N	SGT I	AP200N08T6	200	85	20	/	2	3	4	2.9	3.5	—	—	TO263-6L	正常出货
N	SGT I	AP220N08TLG1	220	85	20	/	2	3	4	2.4	3.5	—	—	TOLLA-8L	正常出货
N	SGT I	AP240N08MP	240	85	20		2	3	4	1.9	2.4	—	—	TO247-3L	暂未量产
N	SGT I	AP240N08P	240	85	20		2	3	4	1.9	2.4	—	—	TO220-3L	
N	SGT I	AP240N08T	240	85	20		2	3	4	1.9	2.4	—	—	TO263-3L	
N	SGT I	AP280N08MP	280	85	20		2	3	4	2.1	2.6	—	—	TO247-3L	正常出货
N	SGT I	AP300N08MP	300	85	20	/	2	3	4	1.5	2	—	—	TO247-3L	正常出货
N	SGT I	AP300N08T6	300	85	20	/	2	3	4	1.5	2	—	—	TO263-6L	正常出货
N	SGT I	AP300N08TLG2	300	85	20	/	2	3	4	1.5	2	—	—	TOLLA-8L	正常出货
N	SGT I	AP340N08MP	340	85	20	/	2	3	4	1.2	1.8	—	—	TO247-3L	暂未量产
N	SGT I	AP400N08MP	400	80	20	/	2	3	4	1.2	1.5	—	—	TO247-3L	正常出货
N	SGT I	AP340N08T6	340	85	20	/	2	3	4	1.35	1.8	—	—	TO263-6L	正常出货
N	SGT I	AP340N08TLG1	340	85	20	/	2	3	4	1.35	1.8	—	—	TOLLA-8L	正常出货
N	SGT II	AP380N08TLG2	380	85	20	/	2	3	4	1.1	1.3	—	—	TOLLA-8L	暂未量产
N	SGT I	AP400N08TLG2	400	80	20	/	2	3	4	1.2	1.3	—	—	TOLLA-8L	正常出货
N	SGT II	AP380N08T6	380	85	20	/	2	3	4	1.1	1.3	—	—	TO263-6L	暂未量产
N	SGT I	AP120N09NF	120	95	20	/	2	3	4	4.4	5.3	—	—	PDFN5*6-8L	暂未量产
N	SGT I	AP120N09P	120	95	20	/	2	3	4	4.5	5.5	—	—	TO220-3L	暂未量产
N	SGT I	AP120N09T	120	95	20	/	2	3	4	4.5	5.5	—	—	TO263-3L	暂未量产
N	SGT I	AP140N09P	140	95	20	/	2	3	4	4.3	5.3	—	—	TO220-3L	暂未量产
N	SGT I	AP140N09T	140	95	20	/	2	3	4	4.3	5.3	—	—	TO263-3L	暂未量产
N	SGT I	AP160N09P	140	95	20	/	2	3	4	3.7	4.4	—	—	TO220-3L	暂未量产
N	SGT I	AP160N09T	140	95	20	/	2	3	4	3.7	4.4	—	—	TO263-3L	暂未量产
N	Trench	AP1N10I	1	100	20	/	1.2	1.8	2.5	430	500	460	550	SOT23L	正常出货
N	Trench	AP3N10BI	2.8	100	20	/	1	1.5	2.5	260	310	270	320	SOT23L	正常出货
N	Trench	AP3N10CI	2.8	100	20	/	1	1.5	2.5	220	280	270	320	SOT23L	正常出货
N	Trench	AP4N10MI	3.8	100	20	/	1	1.9	2.5	210	240	240	280	SOT23-3L	正常出货
N	Trench	AP4N10MSI	4	100	20	/	1.2	1.5	2.5	180	220	240	300	SOT223-3L	正常出货
N	Trench	AP4N10LI	3.8	100	20	/	1	1.9	2.5	210	240	240	280	SOT23-6L	暂未量产
N	Trench	AP4N10SI	4	100	20	/	1.2	1.5	2.5	180	220	240	300	SOT89-3L	暂未量产



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT II	AP5N10BI	5	100	20	/	1.2	1.7	2.5	105	125	120	145	SOT23L	正常出货
N	Trench	AP5N10BSI	5	100	20	/	1.2	1.5	2.5	110	140	160	250	SOT89-3L	正常出货
N	Trench	AP5N10LI	5	100	20	/	1.2	1.5	2.5	110	140	160	180	SOT23-6L	正常出货
N	Trench	AP5N10MI	5	100	20	/	1.2	1.5	2.5	95	125	135	175	SOT23-3L	正常出货
N	Trench	AP5N10SI	5	100	20	/	1.2	1.6	2.5	88	110	95	125	SOT89-3L	正常出货
N	SGT I	AP5N10DF	5	100	20	/	1.2	1.7	2.5	110	140	160	180	PDFN3*3-8L	正常出货
N	SGT II	AP6N10MI	5	100	20	/	1.2	1.7	2.5	105	125	120	145	SOT23-3L	正常出货
N	Trench	AP8N10LI	8	100	20	/	1.2	1.85	2.5	80	100	95	125	SOT23-6L	正常出货
N	Trench	AP8N10MI	8	100	20	/	1.2	1.85	2.5	80	100	95	125	SOT23-3L	正常出货
N	Trench	AP8N10MSI	8	100	20	/	1	1.5	2.5	88	110	96	140	SOT223-3L	正常出货
N	Trench	AP10N10D	10	100	20	/	1.2	1.85	2.5	240	280	260	300	TO252-3L	正常出货
N	Trench	AP10N10S	12.3	100	20	/	1	1.5	2.5	93	110	100	140	SOP-8L	正常出货
N	Trench	AP10N10SI	8	100	20	/	1.2	1.9	2.5	72	100	85	175	SOT89-3L	正常出货
N	SGT I	AP12N10Y	12	100	20	/	1.2	1.5	2.5	110	140	160	180	TO251-3L	正常出货
N	SGT I	APG12N10D	12	100	20	/	1.2	2	2.5	105	125	115	145	TO252-3L	正常出货
N	Trench	AP15N10D	19.3	100	20	/	1.2	1.85	2.5	65	85	75	100	TO252-3L	正常出货
N	Trench	AP15N10D-L	14.5	100	20	/	1.0	1.5	2.5	88	120	96	140	TO252-3L	正常出货
N	Trench	AP15N10S	15	100	20	/	1.2	2	2.5	72	100	88	110	SOP-8L	正常出货
N	Trench	AP15N10Y	14.1	100	20	/	1	2	2.5	88	105	93	125	TO251-3L	正常出货
N	Trench	AP15N10Y-L	15	100	20	/	1	—	3	—	120	—	135	TO251-3L	停产
N	Trench	AP15N10P	19.3	100	20	/	1.2	1.85	2.5	65	85	75	100	TO220-3L	正常出货
N	Trench	AP20N10D	20	100	20	/	1.2	1.85	2.5	65	85	75	100	TO252-3L	正常出货
N	Trench	AP20N10Y	20	100	20	/	1.2	1.85	2.5	65	85	75	100	TO251-3L	暂未量产
N		APG20N10D													
N	Trench	AP30N10D	30	100	20	/	1	1.5	2.2	36	48	39	55	TO252-3L	正常出货
N	Trench	AP30N10NF	30	100	20	/	1	1.5	2.2	36	48	39	55	PDFN5*6-8L	正常出货
N	Trench	AP30N10Y	30	100	20	/	1	1.5	2.2	36	48	39	55	TO251-3L	正常出货
N	SGT II	AP38N10D	38	100	20	/	1.2	1.8	2.5	18	25	28	38	TO252-3L	正常出货
N	SGT II	AP40N10P	40	100	20	/	2	2.8	4	18	25	28	38	TO220-3L	正常出货
N	SGT II	APG40N10D	40	100	20	/	1.2	1.5	2.5	13.8	20	17.4	26	TO252-3L	正常出货
N	SGT II	APG40N10DF	20	100	20	/	1.2	1.5	2.5	14	25	18	30	PDFN3*3-8L	正常出货
N	SGT II	APG40N10NF	40	100	20	/	1	—	2.5	16	20	—	26	PDFN5*6-8L	正常出货
N	SGT II	APG40N10S	40	100	20	/	1.2	1.5	2.5	19	25	24.4	30	SOP-8L	正常出货
N	Trench	AP50N10D	50	100	20	/	1	—	3	24	28	28	30	TO252-3L	正常出货
N	SGT II	AP50N10HP	50	100	20	/	2	3	3	15	20	18	26	TO220-3L	正常出货
N	Trench	AP50N10P	50	100	20	/	1	—	3	24	28	28	30	TO220-3L	正常出货
N	Trench	AP50N10T	50	100	20	/	1	—	3	24	28	28	30	TO263-3L	暂未量产
N	Planar	AP55N10CP	55	100	20	/	2	—	4	17	21	—	—	TO220-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP55N10F	55	100	20	/	1.4	—	2.5	15	21	20	26	TO220F-3L	正常出货
N	Trench	AP55N10P	55	100	20	/	1.4	—	2.5	15	21	20	26	TO220-3L	正常出货
N	Trench	AP55N10T	55	100	20	/	1.4	—	2.5	15	21	20	26	TO263-3L	暂未量产
N	Trench	AP57N10P	57	100	20	/	1	—	2.5	14	20	18	26	TO220-3L	暂未量产
N	Trench	AP57N10T	57	100	20	/	1	—	2.5	14	20	18	26	TO263-3L	暂未量产
N	SGT II	APG60N10D	60	100	20	/	1	—	2.5	8	10	10	12	TO252-3L	正常出货
N	SGT II	APG60N10NF	60	100	20	/	2	3	4	9	12	12	14	PDFN5*6-8L	暂未量产
N	SGT II	APG60N10Y	60	100	20	/	1.2	1.5	2.5	13.8	20	17.4	26	TO251-3L	正常出货
N	SGT II	APG60N10NF	60	100	20	/	1.2	1.8	2.5	9	12	12	14	PDFN5*6-8L	正常出货
N	SGT I	APG60N10P	60	100	20	/	1.2	1.8	2.5	9	12	12	14	TO220-3L	正常出货
N	SGT II	APG60N10S	60	100	20	/	1.2	—	2.5	8	12	12	15.5	SOP-8L	正常出货
N	Planar	AP70N10CF	70	100	20	/	2	—	4	12	14	—	—	TO220F-3L	正常出货
N	Planar	AP70N10CP	70	100	20	/	2	—	4	12	14	—	—	TO220-3L	正常出货
N	Trench	AP70N10D	70	100	20	/	1.2	1.4	2.5	18	25	22	30	TO252-3L	正常出货
N	Trench	AP70N10HD	70	100	20	/	2	3	4	18	25	—	—	TO252-3L	正常出货
N	Trench	AP70N10P	70	100	20	/	2	3	4	18	25	—	—	TO220-3L	正常出货
N	Trench	AP70N10T	70	100	20	/	2	3	4	18	25	—	—	TO263-3L	暂未量产
N	Trench	AP70N10F	70	100	20	/	2	3	4	18	25	—	—	TO220F-3L	暂未量产
N	Planar	AP70N10BCF	70	100	20	/	2	3	4	17	21	—	—	TO220F-3L	暂未量产
N	SGT II	APG80N10D	80	100	20	/	1.2	1.8	2.5	6.5	8	8.7	10.5	TO252-3L	停产
N	SGT II	APG80N10NF	80	100	20	/	1.2	1.8	2.5	6.5	8	8.7	10.5	PDFN5*6-8L	正常出货
N	SGT I	APG80N10T	80	107	20	/	1.2	1.8	2.5	7.2	9	9	11	TO263-3L	正常出货
N	SGT I	APG80N10P	80	100	20	/	1.2	1.8	2.5	8	10	38	50	TO220-3L	正常出货
N	SGT II	AP80N10P	80	100	20	/	2	3	4	8	12	12	14	TO220-3L	正常出货
N	SGT II	AP80N10T	80	100	20	/	2	3	4	8	12	12	14	TO263-3L	正常出货
N	SGT II	APG100N10D	100	100	20	/	1.2	1.5	2.5	6	8	8.7	10.5	TO252-3L	正常出货
N	Trench	AP100N10P	100	100	20	/	2	3	4	11	16	—	—	TO220-3L	停产
N	SGT II	APG110N10NF	110	100	20	/	1.2	1.8	2.5	4.2	6	6.6	9	PDFN5*6-8L	正常出货
N	SGT II	AP120N10NF	120	100	20	/	2	3	4	3.8	4.5	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP120N10P	120	100	20	/	2	—	4	5.8	8	—	—	TO220-3L	正常出货
N	SGT II	AP120N10T	120	100	20	/	2	—	4	5.8	8	—	—	TO263-3L	正常出货
N	SGT II	APG130N10NF	130	100	20	/	1.2	1.8	2.5	3.6	4.5	—	—	PDFN5*6-8L	正常出货
N	SGT II	AP140N10P	140	100	20	/	2	2.9	4	4.8	5.8	—	—	TO220-3L	正常出货
N	SGT II	AP140N10T	140	100	20	/	2	2.9	4	4.8	5.8	—	—	TO263-3L	正常出货
N	SGT II	AP150N10D	150	100	20	/	2	2.9	4	4.2	5.5	—	—	TO252-3L	正常出货
N	SGT II	AP150N10NF	150	100	20	/	2	2.9	4	2.5	3	—	—	PDFN5*6-8L	正常出货
N	SGT II	APG150N10D	150	100	20	/	1.2	1.8	2.5	4.2	6	6.6	9	TO252-3L	正常出货
N	SGT II	AP150N10P	150	100	20	/	2	2.9	4	4.2	5.5	—	—	TO220-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT II	AP150N10T	150	100	20	/	2	2.9	4	4.2	5.5	—	—	TO263-3L	正常出货
N	SGT II	APG160N10P	160	100	20	/	1.2	1.8	2.5	3.6	4.2	—	—	TO220-3L	正常出货
N	SGT I	APG160N10T	160	100	20	/	1.2	1.8	2.5	3.6	4.2	—	—	TO263-3L	正常出货
N	SGT II	AP160N10P	160	100	20	/	2.5	3	4.2	3.7	4.2	—	—	TO220-3L	正常出货
N	SGT I	AP160N10T	160	100	20	/	2.5	3	4.2	3.7	4.2	—	—	TO263-3L	正常出货
N	SGT II	AP180N10MP	180	100	20	/	2	2.9	4	5	6.5	—	—	TO247-3L	暂未量产
N	SGT I	AP180N10P	170	100	20	/	2	3	4	3	3.8	—	—	TO220-3L	暂未量产
N	SGT I	AP180N10T	170	100	20	/	2	3	4	3	3.8	—	—	TO263-3L	暂未量产
N	SGT II	AP200N10MP	200	100	20	/	2	2.9	4	3.6	4.5	—	—	TO247-3L	正常出货
N	SGT II	AP200N10TLG2	200	100	20	/	2	2.9	4	3.6	4.5	—	—	TOLLA-8L	正常出货
N	SGT I	AP200N10P	200	100	20	/	2	3	4	2.5	3	—	—	TO220-3L	暂未量产
N	SGT I	AP200N10T	200	100	20	/	2	3	4	2.5	3	—	—	TO263-3L	暂未量产
N	SGT II	AP220N10MP	220	100	20	/	2	2.9	4	2.5	2.8	—	—	TO247-3L	正常出货
N	SGT II	AP220N10T	220	100	20	/	2	2.9	4	2.4	2.8	—	—	TO263-3L	正常出货
N	SGT II	AP220N10P	220	100	20	/	2	2.9	4	2.4	2.8	—	—	TO220-3L	正常出货
N	SGT II	AP240N10F	240	100	20	/	2	2.9	4	1.5	2	—	—	TO220F-3L	正常出货
N	SGT II	AP240N10P	240	100	20	/	2	2.9	4	1.5	2	—	—	TO220-3L	正常出货
N	SGT II	AP240N10T	240	100	20	/	2	2.9	4	1.5	2	—	—	TO263-3L	正常出货
N	SGT II	AP280N10MP	280	100	20	/	2	2.9	4	2	2.5	—	—	TO247-3L	正常出货
N	SGT II	AP280N10T6	280	100	20	/	2	2.9	4	2	2.5	—	—	TO263-6L	正常出货
N	SGT II	AP280N10TLG2	280	100	20	/	2	2.9	4	2	2.5	—	—	TOLLA-8L	正常出货
N	SGT II	AP300N10T6	300	100	20	/	2	2.9	4	1.5	2	—	—	TO263-6L	正常出货
N	SGT II	AP300N10TLG2	300	100	20	/	2	2.9	4	1.5	2	—	—	TOLLA-8L	正常出货
N	SGT II	AP300N10T	300	100	20		2	3	4	1.6	2.2	/	/	TO263-3L	正常出货
N	SGT II	AP300N10MP	300	100	20	/	2	2.9	4	1.5	2	—	—	TO247-3L	正常出货
N	SGT II	AP320N10TLG2	320	100	20	/	2	2.9	4	1.3	1.6	—	—	TOLLA-8L	正常出货
N	SGT II	AP340N10MP	340	100	20	/	2	3	4	1.7	2.1	—	—	TO247-3L	量产
N	SGT II	AP340N10T6	340	100	20	/	2	2.9	4	1	1.3	—	—	TO263-6L	暂未量产
N	SGT II	AP340N10TLG2	340	100	20	/	2	2.9	4	1	1.3	—	—	TOLLA-8L	暂未量产
N	Trench	AP6N12MI	6	120	20	/	1.2	2	2.5	110	180	120	200	SOT23-3L	正常出货
N	Trench	AP15N12D	15	120	20	/	1.2	2	2.5	100	150	120	180	TO252-3L	正常出货
N	Trench	AP30N12D	30	120	20	/	1.2	2	2.5	50	75	65	90	TO252-3L	正常出货
N	SGT II	AP50N12D	50	120	20	/	2	3	4	25	32	—	—	TO252-3L	正常出货
N	SGT II	AP70N12D	70	120	20	/	1.2	1.8	2.5	10	13	15	18	TO252-3L	正常出货
N	SGT II	AP70N12HD	70	120	20	/	2	3	4	10	13	15	18	TO252-3L	正常出货
N	SGT II	AP70N12NF	70	120	20	/	1.2	1.8	2.5	10	13	15	18	PDFN5*6-8L	正常出货
N	SGT II	AP70N12HNF	70	120	20	/	2	3	4	10	13	15	18	PDFN5*6-8L	正常出货
N	SGT II	AP70N12P	70	120	20	/	2	3	4	10	13	15	18	TO220-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT II	AP70N12T	70	120	20	/	2	3	4	10	13	15	18	TO263-3L	暂未量产
N	SGT II	AP120N12NF	120	120	20	/	2	3	3.5	6	6.8	—	—	PDFN5*6-8L	暂未量产
N	SGT II	AP120N12P	120	120	20	/	2	3	3.5	6.8	8.5	—	—	TO220-3L	正常出货
N	SGT II	AP120N12T	120	120	20	/	2	3	3.5	6.8	8.5	—	—	TO263-3L	正常出货
N	SGT II	APG120N12NF	120	120	20	/	2	3	3.5	6	6.8	—	—	PDFN5*6-8L	正常出货
N	SGT II	APG120N12P	120	120	20	/	1.2	1.8	3	6	6.8	—	—	TO220-3L	正常出货
N	SGT I	APG120N12T	120	120	20	/	1.2	1.8	3	6	6.8	—	—	TO263-3L	正常出货
N	SGT I	AP200N12F	200	120	20	/	2	3	4	3.7	4.2	—	—	TO220F-3L	正常出货
N	SGT I	AP200N12P	200	120	20	/	2	3	4	3.7	4.2	—	—	TO220-3L	正常出货
N	SGT I	AP200N12T	200	120	20	/	2	3	4	3.7	4.2	—	—	TO263-3L	正常出货
N	SGT I	AP240N12MP	240	120	20	/	2	3	4	3.7	4.2	—	—	TO247-3L	正常出货
N	SGT I	AP240N12T6	240	120	20	/	2	3	4	3.7	4.2	—	—	TO263-6L	正常出货
N	SGT I	AP250N12P	250	120	20	/	2	3	4	2.1	2.8	—	—	TO220-3L	即将量产
N	SGT I	AP250N12T	250	120	20	/	2	3	4	2.1	2.8	—	—	TO263-3L	即将量产
N	SGT I	AP260N12TLG1	260	120	20	/	2	3	4	3.7	4.2	—	—	TOLLA-8L	正常出货
N	SGT I	AP280N12T6	280	120	20	/	2	3	4	2	2.8	—	—	TO263-6L	即将量产
N	SGT I	AP280N12TLG2	280	120	20	/	2	3	4	2	2.8	—	—	TOLLA-8L	即将量产
N	SGT I	AP280N12MP	280	120	20	/	2	3	4	2	2.8	—	—	TO247-3L	即将量产
N	SGT I	AP300N12T6	300	120	20	/	2	3	4	1.5	2	—	—	TO263-6L	暂未量产
N	SGT I	AP300N12TLG1	300	120	20	/	2	3	4	1.5	2	—	—	TOLLA-8L	暂未量产
N	SGT I	AP300N12MP	300	120	20	/	2	3	4	1.5	2	—	—	TO247-3L	暂未量产
N	Depletion	APD02N15AI	0.2	150	20	300	-8	-6.5	-1	7300	100000	9500	15000	SOT23L	暂未量产
N	Trench	AP4N15MI	4	150	20	/	1	1.8	3	220	280	230	300	SOT23-3L	正常出货
N	Trench	AP4N15LI	4	150	20	/	1	1.8	3	220	280	230	300	SOT23-6L	正常出货
N	Trench	AP5N15MSI	5	150	20	/	1	1.6	3	260	320	300	380	SOT223-3L	正常出货
N	Trench	AP5N15S	5	150	20	/	1	1.6	3	260	320	300	380	SOP-8L	正常出货
N	Trench	AP10N15D	10	150	20	/	1	1.6	3	285	345	290	365	TO252-3L	正常出货
N	SGT II	AP18N15S	18	150	20	/	1.2	1.8	2.5	63	78	72	90	SOP-8L	正常出货
N	Trench	AP20N15D	20	150	20	/	1.2	1.6	2.5	140	180	150	200	TO252-3L	正常出货
N	SGT II	AP20N15S	20	150	20	/	1.2	1.8	2.5	43	60	60	70	SOP-8L	正常出货
N	Trench	AP24N15D	24	150	20	/	1.2	2	2.5	68	88	78	100	TO252-3L	暂未量产
N	SGT II	AP25N15NF	25	150	20	/	1.2	1.8	2.5	43	52	45	70	PDFN5*6-8L	正常出货
N	SGT II	AP28N15DF	28	150	20	/	1.2	2	2.5	63	78	72	90	PDFN3*3-8L	正常出货
N	SGT II	AP28N15D	28	150	20	/	1.2	2	2.5	63	78	72	90	TO252-3L	正常出货
N	SGT II	AP30N15D	30	150	20	/	1.2	1.8	2.5	43	52	45	70	TO252-3L	正常出货
N	SGT II	AP30N15HD	30	150	20	/	2	3	4	63	78	72	90	TO252-3L	正常出货
N	SGT II	AP30N15NF	30	150	20	/	1.2	2	2.5	63	78	72	90	PDFN5*6-8L	正常出货
N	SGT II	AP30N15P	28	150	20	/	2	3	4	63	78	72	90	TO220-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SGT II	AP30N15T	28	150	20	/	2	3	4	63	78	72	90	TO263-3L	正常出货
N	Trench	AP40N15D	40	150	20	/	1.2	2	2.5	35	46	37	50	TO252-3L	暂未量产
N	Trench	AP40N15F	40	150	20	/	1.2	2	2.5	35	46	37	50	TO220F-3L	暂未量产
N	Trench	AP40N15P	40	150	20	/	1.2	2	2.5	35	46	37	50	TO220-3L	暂未量产
N	Trench	AP40N15T	40	150	20	/	1.2	2	2.5	35	46	37	50	TO263-3L	暂未量产
N	Trench	AP40N15NF	50	150	20	/	1.2	1.5	2.5	28	35	35	42	PDFN5*6-8L	暂未量产
N	SGT II	AP50N15D	50	150	20	/	1.2	1.5	2.5	28	35	35	42	TO252-3L	暂未量产
N	SGT II	AP70N15D	70	150	20	/	1.2	1.6	2.5	18	25	25	30	TO252-3L	暂未量产
N	SGT II	AP70N15NF	70	150	20	/	1.2	1.6	2.5	18	25	25	30	PDFN5*6-8L	暂未量产
N	SGT II	AP70N15P	70	150	20	/	1.2	1.6	2.5	18	25	25	30	TO220-3L	暂未量产
N	SGT II	AP70N15T	70	150	20	/	1.2	1.6	2.5	18	25	25	30	TO263-3L	暂未量产
N	SGT II	AP90N15D	90	150	20	/	2	2.9	4	14	18	—	—	TO252-3L	正常出货
N	SGT II	AP90N15NF	90	150	20	/	2	2.9	4	14	18	—	—	PDFN5*6-8L	暂未量产
N	SGT II	AP90N15P	90	150	20	/	2	2.9	4	14	18	—	—	TO220-3L	正常出货
N	SGT II	AP90N15T	90	150	20	/	2	3	4	16	18	—	—	TO263-3L	正常出货
N	SGT I	AP120N15NF	120	150	20	/	2	2.9	4	9.5	12	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP120N15P	120	150	20	/	2	2.9	4	9.5	12	—	—	TO220-3L	正常出货
N	SGT I	AP120N15T	120	150	20	/	2	2.9	4	9.5	12	—	—	TO263-3L	正常出货
N	SGT I	AP140N15NF	140	150	20	/	2	3.2	4.5	7.4	9	—	—	PDFN5*6-8L	正常出货
N	SGT I	AP140N15P	140	150	20	/	2	3.2	4.5	7.4	9	—	—	TO220-3L	暂未量产
N	SGT I	AP140N15T	140	150	20	/	2	3.2	4.5	7.4	9	—	—	TO263-3L	正常出货
N	SGT I	AP190N15F	190	150	20	/	2	2.9	4	6.6	7.5	—	—	TO220F-3L	正常出货
N	SGT I	AP190N15P	190	150	20	/	2	2.9	4	6.6	7.5	—	—	TO220-3L	正常出货
N	SGT I	AP190N15T	190	150	20	/	2	2.9	4	6.6	7.5	—	—	TO263-3L	正常出货
N	SGT I	AP200N15MP	200	150	20	/	2	2.9	4	6.6	7.5	—	—	TO247-3L	正常出货
N	SGT I	AP200N15T6	200	150	20	/	2	2.9	4	6.6	7.5	—	—	TO263-6L	正常出货
N	SGT I	AP200N15TLG1	200	150	20	/	2	2.9	4	6.6	7.5	—	—	TOLLA-8L	正常出货
N	SGT I	AP240N15P	260	150	20	/	2	2.9	4	3.7	4.8	—	—	TO220-3L	正常出货
N	SGT I	AP240N15T	260	150	20	/	2	2.9	4	3.7	4.8	—	—	TO263-3L	正常出货
N	SGT I	AP260N15MP	260	150	20	/	2	2.9	4	4.8	5.8	—	—	TO247-3L	正常出货
N	SGT I	AP260N15T	260	150	20	/	2	2.9	4	4.8	5.8	—	—	TO263-3L	正常出货
N	SGT I	AP260N15T6	260	150	20	/	2	2.9	4	4.8	5.8	—	—	TO263-6L	正常出货
N	SGT I	AP260N15TLG1	260	150	20	/	2	2.9	4	4.8	5.8	—	—	TOLLA-8L	正常出货
N	SGT I	AP300N15TLG1	300	150	20	/	2.5	3.2	4.5	3.3	4.2	—	—	TOLLA-8L	正常出货
N	SGT I	AP300N15MP	300	150	20	/	2.5	3.2	4.5	3.3	4.2	—	—	TO247-3L	正常出货
N	Planar	AP2N20MI	2	200	20	/	1	—	3	1400	1800	—	—	SOT23-3L	正常出货
N	Planar	AP3N20SI	2	200	20	/	1	—	3	1260	1800	—	—	SOT89-3L	正常出货
N	Trench	AP4N20SI	4	200	450	/	1.2	2	2.5	450	580	680	850	SOT89-3L	暂未量产



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP4N20MSI	4	200	450	/	1.2	2	2.5	450	580	680	850	SOT223-3L	正常出货
N	Trench	AP4N20MI	4	200	450	/	1.2	2	2.5	450	580	680	850	SOT23-3L	正常出货
N	Planar	AP5N20D	5	200	20	/	1.2	1.5	2.5	420	580	—	—	TO252-3L	暂未量产
N	Planar	AP5N20D-H	5	200	20	/	2.5	3.1	4	530	600	—	—	TO252-3L	正常出货
N	Planar	AP5N20MSI	5	200	20	/	2.5	3.1	4	530	600	—	—	SOT223-3L	正常出货
N	Trench	AP5N20Y	5	200	20		1	1.6	3	530	600	/	/	TO251-3L	暂未量产
N	Planar	AP5N20HY	5	200	20	/	2.5	3.1	4	530	600	—	—	TO251-3L	正常出货
N	Planar	AP9N20D	9	200	20	/	1	1.6	3	230	300	—	—	TO252-3L	正常出货
N	Planar	AP9N20Y	9	200	20	/	2	3.5	4	230	300	—	—	TO251-3L	正常出货
N	Planar	AP9N20P	9	200	20	/	2	3.5	4	230	300	—	—	TO220-3L	正常出货
N	Planar	AP18N20D	18	200	20	/	1	1.6	3	120	150	—	—	TO252-3L	暂无产能
N	Planar	AP18N20HD	18	200	20	/	2	3	4	120	150	—	—	TO252-3L	正常出货
N	Planar	AP18N20P	18	200	20	/	2	3	4	120	150	—	—	TO220-3L	正常出货
N	Planar	AP18N20T	18	200	20	/	2	3	4	120	150	—	—	TO263-3L	暂未量产
N	Planar	AP18N20Y	18	200	20	/	2	3.5	4	120	150	—	—	TO251-3L	正常出货
N	Planar	AP640P	18	200	20	/	2	3	4	120	150	—	—	TO220-3L	正常出货
N	Trench	AP30N20NF	30	200	20	/	2	3	4	120	150	—	—	PDFN5*6-8L	正常出货
N	Trench	AP30N20D	30	200	20	/	1.2	1.5	2.5	65	75	85	100	TO252-3L	正常出货
N	Planar	AP30N20P	30	200	20	/	2	3	4	100	130	—	—	TO220-3L	正常出货
N	Planar	AP34N20P	34	200	20	/	2	3	4	60	85	—	—	TO220-3L	正常出货
N	Trench	AP40N20F	40	200	20	/	2	3	4	50	65	—	—	TO220F-3L	正常出货
N	Trench	AP40N20MP	40	200	20	/	2	3	4	85	95	—	—	TO247-3L	正常出货
N	Trench	AP40N20MP PLUS	40	200	30		2	3	4	60	80	—	—	TO247-3L plus	正常出货
N	Trench	AP40N20P	40	200	20	/	2	3	4	50	65	—	—	TO220-3L	正常出货
N	Trench	AP40N20T	40	200	20	/	2	3	4	50	65	—	—	TO263-3L	正常出货
N	Trench	AP50N20F	50	200	20	/	2	3	4	48	55	—	—	TO220F-3L	正常出货
N	Planar	AP50N20MP	40	200	20	/	2	3	4	50	60	—	—	TO247-3L	正常出货
N	Trench	AP50N20P	50	200	20	/	2	3	4	48	55	—	—	TO220-3L	正常出货
N	Trench	AP50N20T	50	200	20	/	2	3	4	48	55	—	—	TO263-3L	正常出货
N	Trench	AP70N20CF	70	200	20	/	2	3	4	38	48	—	—	TO220F-3L	正常出货
N	Trench	AP70N20CP	70	200	20	/	2	3	4	38	48	—	—	TO220-3L	正常出货
N	Trench	AP70N20CT	70	200	20	/	2	3	4	38	48	—	—	TO263-3L	暂未量产
N	Planar	AP70N20MP	70	200	20	/	2	3	4	30	38	—	—	TO247-3L	正常出货
N	Planar	AP70N20MP-L	70	200	20	/	2	3	4	30	38	—	—	TO247-3L	正常出货
N	Planar	AP75N20CF	75	200	20	/	2	3	4	30	38	—	—	TO220F-3L	正常出货
N	Trench	AP75N20F	75	200	20	/	3.6	—	5	17	20	—	—	TO220F-3L	正常出货
N	Trench	AP75N20P	75	200	20	/	3.6	—	5	17	20	—	—	TO220-3L	正常出货
N	Trench	AP75N20T	75	200	20	/	3.6	—	5	17	20	—	—	TO263-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Trench	AP100N20MP	100	200	20	/	3.6	4.5	5	17	20	—	—	TO247-3L	正常出货
N	Trench	AP100N20P	100	200	20	/	2	3.5	4.5	9	11	—	—	TO220-3L	正常出货
N	Trench	AP100N20T	100	200	20	/	5	3.5	4.5	9	11	/	120/120	TO263-3L	
N	Planar	AP130N20MP	130	200	20	/	2	3	4	18	23	—	—	TO247-3L	正常出货
N	SGT I	AP140N20MP	140	200	20	/	2	3.5	4.5	9	11	—	—	TO247-3L	正常出货
N	Trench	AP150N20MP	150	200	20	/	3.6	4.3	5	8.5	10	—	—	TO247-3L	暂未量产
N	Trench	AP4N25MI	4	250	20	/	1	2	3	900	1200	—	—	SOT23-3L	正常出货
N	SGT III	AP6N25MI	6	250	20	/	2	3	4	500	650	—	—	SOT23-3L	暂未量产
N	Trench	AP7N25D	7	250	20	/	1	2	3	900	1200	—	—	TO252-3L	正常出货
N	SGT III	AP10N25D	10	250	20	/	2	3	4	500	650	—	—	TO252-3L	正常出货
N	Planar	AP12N25D	12	250	20	/	2	3	4	450	550	—	—	TO252-3L	正常出货
N	Planar	AP12N25P	12	250	20	/	2	3	4	450	550	—	—	TO220-3L	
N	Planar	AP12N25Y	12	250	20	/	2	3	4	450	550	—	—	TO251-3L	
N	Planar	AP17N25D	17	250	20	/	2	3	4	220	280	—	—	TO252-3L	正常出货
N	Planar	AP17N25P	17	250	20	/	2	3	4	220	280	—	—	TO220-3L	正常出货
N	Planar	AP17N25F	17	250	20	/	2	3	4	220	280	—	—	TO220F-3L	
N	Planar	AP17N25Y	17	250	20	/	2	3	4	220	280	—	—	TO251-3L	
N	Planar	AP40N25F	17	250	20	/	2	3.1	4	105	130	—	—	TO220F-3L	
N	Planar	AP40N25P	40	250	20	/	2	3.1	4	105	130	—	—	TO220-3L	正常出货
N	Planar	AP40N25T	40	250	20	/	2	3.1	4	105	130	—	—	TO263-3L	正常出货
N	Planar	AP50N25P	50	250	20	/	2	3.1	4	70	85	—	—	TO220-3L	正常出货
N	Planar	AP50N25T	50	250	20	/	2	3.1	4	70	85	—	—	TO263-3L	正常出货
N	Planar	AP50N25MP	50	250	20	/	2	3.1	4	70	85	—	—	TO247-3L	正常出货
N	Trench	AP60N25P	60	250	20	/	3.6	4.1	5	28	33	—	—	TO220-3L	正常出货
N	Trench	AP60N25T	60	250	20	/	3.6	4.1	5	28	33	—	—	TO263-3L	正常出货
N	Planar	AP90N25MP	90	250	20	/	2	3.1	4	30	40	—	—	TO247-3L	正常出货
N	Trench	AP100N25MP	100	250	20	/	3.6	4.1	5	28	33	—	—	TO247-3L	正常出货
N	SGT I	AP110N25MP	110	250	20	/	2	3.5	4.5	18	20	—	—	TO247-3L	正常出货
N	Trench	AP150N25MP	150	250	20	/						—	—	TO247-3L	正常出货
N	Trench	AP120N25MP	120	250	20	/	3.6	4.1	5	15	18	—	—	TO247-3L	暂未量产
N	Planar	AP2N30MI	2	300	20	/	2	3.1	4	3000	4000	—	—	SOT23-3L	正常出货
N	Planar	AP3N30D	3	300	20	/	2	3	4	2600	3600	—	—	TO252-3L	正常出货
N	Planar	AP3N30H	3	300	20	/	2	3	4	2600	4000	—	—	TO92-3L	正常出货
N	Planar	AP5N30D	5	300	20	/	2	3.5	4	1200	1500	—	—	TO252-3L	正常出货
N	Planar	AP70N30MP	70	300	20	/	2	3.1	4	56	68	—	—	TO247-3L	正常出货
N	Planar	AP100N30MP	100	300	20	/	2	3.1	4	32	40	—	—	TO247-3L	正常出货
N	Planar	AP1N40MI	1	400	20	/	1.2	1.8	2.5	7200	8500	—	—	SOT23-3L	正常出货
N	Planar	AP5N40D	5	400	20	/	2	3.5	4	1200	1500	—	—	TO252-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Planar	AP6N40D	6	400	20	/	2	3.5	4	800	1000	—	—	TO252-3L	正常出货
N	Planar	AP7N40D	7	400	20	/	2	3	4	700	1000	—	—	TO252-3L	暂未量产
N	Planar	AP10N40D	10	400	20	/	2	3	4	430	540	—	—	TO252-3L	暂未量产
N	Planar	AP10N40F	10	400	20	/	2	3	4	430	540	—	—	TO220F-3L	暂未量产
N	Planar	AP10N40P	10	400	20	/	2	3	4	430	540	—	—	TO220-3L	暂未量产
N	Planar	AP12N40D	12	400	20	/	2	3	4	430	540	—	—	TO252-3L	正常出货
N	Planar	AP12N40F	12	400	20	/	2	3	4	430	540	—	—	TO220F-3L	正常出货
N	Planar	AP12N40P	12	400	20	/	2	3	4	430	540	—	—	TO220-3L	正常出货
N	Planar	AP3N50D	3	500	30	/	2	3	4	2400	3000	—	—	TO252-3L	正常出货
N	Planar	AP5N50BD	4.8	500	30	/	2	3	4	2400	3000	—	—	TO252-3L	正常出货
N	Planar	AP5N50BDF	4.8	500	30	/	2	3	4	2400	3000	—	—	PDFN3*3-8L	正常出货
N	Planar	AP5N50D	5	500	30	/	2	3	4	1350	1500	—	—	TO252-3L	正常出货
N	Planar	AP5N50D-L	5	500	30	/	2	3	4	1500	1800	—	—	TO252-3L	暂无产能
N	Planar	AP5N50P	5	500	30	/	2	3	4	1350	1500	—	—	TO220-3L	正常出货
N	Planar	AP5N50F	5	500	30	/	3	—	4	1000	1200	—	—	TO220F-3L	正常出货
N	Planar	AP7N50D	7	500	30	/	2	—	4	1200	1500	—	—	TO252-3L	正常出货
N	Planar	AP9N50D	9	500	30	/	2	—	4	630	720	—	—	TO252-3L	正常出货
N	Planar	AP9N50F	9	500	30	/	2	—	4	630	720	—	—	TO220F-3L	正常出货
N	Planar	AP9N50P	9	500	30	/	2	—	4	630	720	—	—	TO220-3L	暂未量产
N	Planar	AP10N50F	10	500	30	/	2	—	4	600	680	—	—	TO220F-3L	正常出货
N	Planar	AP13N50F	13	500	30	/	2	3	4	420	500	—	—	TO220F-3L	正常出货
N	Planar	AP13N50HF	13	500	30	/	2	3	4	420	500	—	—	TO220F-3L	正常出货
N	Planar	AP13N50P	13	500	30	/	2	3	4	420	500	—	—	TO220-3L	正常出货
N	Planar	AP16N50P	16	500	30	/	2	3	4	380	400	—	—	TO220-3L	暂未量产
N	Planar	AP16N50F	16	500	30	/	2	3	4	380	400	—	—	TO220F-3L	暂未量产
N	Planar	AP18N50F	18	500	30	/	2	3	4	340	400	—	—	TO220F-3L	正常出货
N	Planar	AP18N50P	18	500	30	/	2	3	4	340	400	—	—	TO220-3L	正常出货
N	Planar	AP18N50T	18	500	30	/	2	3	4	340	400	—	—	TO263-3L	正常出货
N	Planar	AP20N50F	20	500	30	/	2	3.2	4	260	300	—	—	TO220F-3L	正常出货
N	Planar	AP20N50P	20	500	30	/	2	3.2	4	260	300	—	—	TO220-3L	正常出货
N	Planar	AP20N50MP	20	500	30	/	2	3.2	4	260	300	—	—	TO247-3L	正常出货
N	Planar	AP24N50F	25	500	30	/	3	—	4	215	280	—	—	TO220F-3L	正常出货
N	Planar	AP24N50P	25	500	30	/	3	—	4	215	280	—	—	TO220-3L	正常出货
N	Planar	AP24N50T	25	500	30	/	3	—	4	215	280	—	—	TO263-3L	正常出货
N	Planar	AP24N50MP	25	500	30	/	3	—	4	215	280	—	—	TO247-3L	正常出货
N	Planar	AP28N50F	28	500	30	/	3	—	4	170	200	—	—	TO220F-3L	正常出货
N	Planar	AP28N50P	28	500	30	/	3	—	4	170	200	—	—	TO220-3L	正常出货
N	Planar	AP28N50T	28	500	30	/	3	—	4	170	200	—	—	TO263-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Planar	AP28N50MP	28	500	30	/	3	—	4	170	200	—	—	TO247-3L	正常出货
N	Planar	AP34N50MP	34	500	30	/	3	3.2	5	150	180	—	—	TO247-3L	正常出货
N	Planar	AP40N50MP	40	500	30	/	2	3	4	124	170			TO247-3L	正常出货
N	Planar	AP50N50MP	50	500	30	/	2	3	4	110	150			TO247-3L	正常出货
N	Planar	AP1N60MSI	1	600	30	/	2	—	4	8500	11000	—	—	SOT223-3L	正常出货
N	Planar	AP2N60D	2	600	30	/	2	3	4	4000	5000	—	—	TO252-3L	暂未量产
N	Planar	AP2N60F	2	600	30	/	2	3	4	4000	5000	—	—	TO220F-3L	暂未量产
N	Planar	AP2N60P	2	600	30	/	2	3	4	4000	5000	—	—	TO220-3L	暂未量产
N	Planar	AP4N60D	4	600	30	/	2	3	4	1900	2300	—	—	TO252-3L	暂未量产
N	Planar	AP4N60F	4	600	30	/	2	3	4	1900	2300	—	—	TO220F-3L	暂未量产
N	Planar	AP4N60P	4	600	30	/	2	3	4	1900	2300	—	—	TO220-3L	暂未量产
N	SJ	APJ5N60D	5	600	30	/	2	3	4	1800	2200	—	—	TO252-3L	正常出货
N	Planar	AP5N60P	5	600	30	/	2	3	4	2000	2100			TO220-3L	正常出货
N	Planar	AP7N60D	7	600	30	/	2	3	4	1200	1400	—	—	TO252-3L	暂未量产
N	Planar	AP7N60F	7	600	30	/	2	3	4	900	1100	—	—	TO220F-3L	暂未量产
N	Planar	AP7N60P	7	600	30	/	2	3	4	900	1100	—	—	TO220-3L	暂未量产
N	Planar	AP10N60F	10	600	30	/	2	3	4	750	900	—	—	TO220F-3L	暂未量产
N	Planar	AP10N60P	10	600	30	/	2	3	4	750	900	—	—	TO220-3L	暂未量产
N	Planar	AP12N60F	12	600	30	/	2	3	4	550	780	—	—	TO220F-3L	暂未量产
N	Planar	AP12N60P	12	600	30	/	2	3	4	550	780	—	—	TO220-3L	暂未量产
N	Planar	AP15N60F	15	600	30	/	2	3	4	450	650	—	—	TO220F-3L	暂未量产
N	Planar	AP15N60P	15	600	30	/	2	3	4	450	650	—	—	TO220-3L	暂未量产
N	Planar	AP20N60F	20	600	30	/	2	3	4	350	550	—	—	TO220F-3L	暂未量产
N	SJ	APJ100N60MP	100	600	30	/	2	3	4	78	90	—	—	TO247-3L	正常出货
N	SJ	APJ290N60MP	290	650	30	/	4	—	5	26	30	—	—	TO247-3L	暂未量产
N	Planar	AP1N65H	1	650	30	/	2	3	4	7000	9000	—	—	TO92-3L	暂未量产
N	Planar	AP1N65D	1	650	30	/	2	3	4	7000	9000	—	—	TO252-3L	暂未量产
N	Planar	AP2N65D	2	650	30	/	3	—	4	4000	4800	—	—	TO252-3L	暂未量产
N	Planar	AP2N65F	2	650	30	/	2	3	4	4000	5000	—	—	TO220F-3L	暂未量产
N	Planar	AP2N65P	2	650	30	/	2	3	4	4000	5000	—	—	TO220-3L	暂未量产
N	Planar	AP4N65D	4	650	30	/	2	—	4	2000	2400	—	—	TO252-3L	正常出货
N	Planar	AP4N65Y	4	650	30	/	2	-	4	2000	2400	—	—	TO251-3L	正常出货
N	Planar	AP4N65P	4	650	30	/	2	—	4	2000	2400	—	—	TO220-3L	暂未量产
N	Planar	AP4N65F	4	650	30	/	2	—	4	2000	2400	—	—	TO220F-3L	正常出货
N	Planar	AP5N65D	5	650	30	/	2	3	4	1900	2300	—	—	TO252-3L	正常出货
N	Planar	AP5N65F	5	650	30	/	2	3	4	1900	2300	—	—	TO220F-3L	
N	SJ	APJ5N65D	5	650	30	/	2	3	4	1800	2200	—	—	TO252-3L	正常出货
N	SJ	APJ6N65D	6	650	30	/	2	3	4	1500	1800	—	—	TO252-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	Planar	AP7N65Y	7	650	30	/	2	—	4	1000	1200	—	—	TO251-3L	正常出货
N	Planar	AP7N65D	7	650	30	/	2	—	4	1000	1200	—	—	TO252-3L	正常出货
N	Planar	AP7N65F	7	650	30	/	2	—	4	1000	1200	—	—	TO220F-3L	正常出货
N	Planar	AP7N65P	7	650	30	/	2	—	4	1000	1200	—	—	TO220-3L	暂未量产
N	SJ	APJ7N65D	7	650	30	/	2	3	4	1000	1200	—	—	TO252-3L	正常出货
N	Planar	AP8N65F	8	650	30	/	2	3	4	1000	1200	—	—	TO220F-3L	正常出货
N	SJ	APJ7N65F	7	650	30	/	2	3	4	1000	1100	—	—	TO220F-3L	暂未量产
N	SJ	APJ7N65P	7	650	30	/	2	3	4	1000	1100	—	—	TO220-3L	暂未量产
N	SJ	APJ10N65D	7	650	30	/	2	3	4	890	980	—	—	TO252-3L	暂未量产
N	SJ	APJ10N65F	7	650	30	/	2	3	4	890	980	—	—	TO220F-3L	暂未量产
N	Planar	AP10N65F	10	650	30	/	2	—	4	750	900	—	—	TO220F-3L	正常出货
N	Planar	AP10N65P	10	650	30	/	2	3	4	750	900	—	—	TO220-3L	暂未量产
N	Planar	AP12N65F	12	650	30	/	2	3.5	4	600	720	—	—	TO220F-3L	正常出货
N	Planar	AP12N65P	12	650	30	/	2	3.5	4	600	720	—	—	TO220-3L	正常出货
N	SJ	APJ12N65D	12	650	30	/	2.8	3.3	3.8	750	850	—	—	TO252-3L	正常出货
N	SJ	APJ14N65F	14	650	30	/	2.5	3.3	4.5	560	650	—	—	TO220F-3L	正常出货
N	SJ	APJ14N65D	14	650	30	/	2.5	3.3	4.5	560	650	—	—	TO252-3L	正常出货
N	Planar	AP15N65F	15	650	30	/	2	3	4	560	650	—	—	TO220F-3L	暂未量产
N	Planar	AP15N65P	15	650	30	/	2	3	4	560	650	—	—	TO220-3L	暂未量产
N	Planar	AP16N65F	16	650	30	/								TO220F-3L	正常出货
N	Planar	AP16N65P	16	650	30	/								TO220-3L	正常出货
N	Planar	AP16N65T	16	650	30	/								TO263-3L	正常出货
N	SJ	APJ16N65D	16	650	30	/	2.5	3.3	4.5	510	600	—	—	TO252-3L	正常出货
N	SJ	APJ16N65F	16	650	30	/	2.5	3.3	4.5	510	600	—	—	TO220F-3L	正常出货
N	SJ	APJ16N65P	16	650	30	/	2.5	3.3	4.5	510	600	—	—	TO220-3L	正常出货
N	Planar	AP20N65F	20	650	30	/	2	3	4	280	350	—	—	TO220F-3L	暂未量产
N	Planar	AP20N65P	20	650	30	/	2	3	4	280	350	—	—	TO220-3L	暂未量产
N	Planar	AP20N65MP	20	650	30	/	2	3	4	280	350	—	—	TO247-3L	暂未量产
N	SJ	APJ30N65D	30	650	30	/	2.5	3.3	4.5	280	340	—	—	TO252-3L	正常出货
N	SJ	APJ30N65T	30	650	30	/	2.5	3.3	4.5	280	340	—	—	TO263-3L	正常出货
N	SJ	APJ30N65F	30	650	30	/	2.5	3.3	4.5	280	340	—	—	TO220F-3L	正常出货
N	SJ	APJ30N65P	30	650	30	/	2.5	3.5	4.5	280	340	—	—	TO220-3L	正常出货
N	SJ	APJ45N65D	30	650	30	/	2.5	3.5	4.5	200	260	—	—	TO252-3L	正常出货
N	SJ	APJ45N65F	30	650	30	/	2.5	3.5	4.5	200	260	—	—	TO220F-3L	正常出货
N	SJ	APJ45N65P	30	650	30	/	2.5	3.5	4.5	200	260	—	—	TO220-3L	正常出货
N	SJ	APJ45N65T	30	650	30	/	2.5	3.5	4.5	200	260	—	—	TO263-3L	正常出货
N	SJ	APJ50N65D	50	650	30		2.5	3.3	4.5	150	190	/	/	TO252-3L	正常出货
N	SJ	APJ50N65F	50	650	30	/	2.5	3.3	4.5	150	190	—	—	TO220F-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
N	SJ	APJ50N65P	50	650	30	/	2.5	3.3	4.5	150	190	—	—	TO220-3L	正常出货
N	SJ	APJ50N65T	50	650	30	/	2.5	3.3	4.5	150	190	—	—	TO263-3L	正常出货
N	SJ	APJ50N65MP	50	650	30	/	2.5	3.5	4.5	150	190	—	—	TO247-3L	正常出货
N	SJ	APJ75N65F	75	650	30	/	2.5	3.5	4.5	100	130	—	—	TO220F-3L	正常出货
N	SJ	APJ75N65P	75	650	30	/	2.5	3.5	4.5	100	130	—	—	TO220-3L	正常出货
N	SJ	APJ75N65MP	75	650	30	/	2.5	3.5	4.5	100	130	—	—	TO247-3L	
N	SJ	APJ75N65T	75	650	30	/	2.5	3.5	4.5	100	130	—	—	TO263-3L	正常出货
N	SJ	APJ100N65F	100	650	30	/	2	3	5	78	90	—	—	TO220F-3L	暂未量产
N	SJ	APJ100N65P	100	650	30	/	2	3	5	78	90	—	—	TO220-3L	暂未量产
N	SJ	APJ100N65T	100	650	30	/	2	3	5	78	90	—	—	TO263-3L	暂未量产
N	SJ	APJ100N65MP	100	650	30	/	2	3	5	78	90	—	—	TO247-3L	暂未量产
N	SJ	APJ150N65MP	150	650	30	/	3	4	5	62	70	—	—	TO247-3L	暂未量产
N	SJ	APJ230N65MP	70	650	30	/	4	—	5	38	41	—	—	TO247-3L	暂未量产
N	Planar	AP4N70D	4	700	30	/	2	3	4	2600	3000	—	—	TO252-3L	暂未量产
N	Planar	AP4N70Y	4	700	30	/	2	3	4	2600	3000	—	—	TO251-3L	暂未量产
N	Planar	AP4N70F	4	700	30	/	2	3	4	2600	3000	—	—	TO220F-3L	暂未量产
N	Planar	AP4N70P	4	700	30	/	2	3	4	2600	3000	—	—	TO220-3L	暂未量产
N	Planar	AP4N70T	4	700	30	/	2	3	4	2600	3000	—	—	TO263-3L	暂未量产
N	Planar	AP7N70D	7	700	30	/	2	3	4	1300	1800	—	—	TO252-3L	暂未量产
N	Planar	AP7N70Y	7	700	30	/	2	3	4	1300	1800	—	—	TO251-3L	暂未量产
N	Planar	AP7N70F	7	700	30	/	2	3	4	1300	1800	—	—	TO220F-3L	暂未量产
N	Planar	AP7N70P	7	700	30	/	2	3	4	1300	1800	—	—	TO220-3L	暂未量产
N	Planar	AP7N70T	7	700	30	/	2	3	4	1300	1800	—	—	TO263-3L	暂未量产
N	Planar	AP10N70F	10	700	30	/	2	3	4	780	980	—	—	TO220F-3L	暂未量产
N	Planar	AP10N70P	10	700	30	/	2	3	4	780	980	—	—	TO220-3L	暂未量产
N	Planar	AP10N70T	10	700	30	/	2	3	4	780	980	—	—	TO263-3L	暂未量产
N	Planar	AP12N70F	12	700	30	/	2	3	4	620	750	—	—	TO220F-3L	暂未量产
N	Planar	AP12N70P	12	700	30	/	2	3	4	620	750	—	—	TO220-3L	暂未量产
N	Planar	AP12N70T	12	700	30	/	2	3	4	620	750	—	—	TO263-3L	暂未量产
N	SJ	APJ12N70F	12	700	30	/								TO220F-3L	正常出货
N	Planar	AP15N70F	15	700	30	/	2	3	4	560	650	—	—	TO220F-3L	暂未量产
N	Planar	AP15N70P	15	700	30	/	2	3	4	560	650	—	—	TO220-3L	暂未量产
N	Planar	AP15N70T	15	700	30	/	2	3	4	560	650	—	—	TO263-3L	暂未量产
N	Planar	AP18N70F	18	700	30	/	2	3	4	450	550	—	—	TO220F-3L	暂未量产
N	Planar	AP18N70P	18	700	30	/	2	3	4	450	550	—	—	TO220-3L	暂未量产
N	Planar	AP18N70T	18	700	30	/	2	3	4	450	550	—	—	TO263-3L	暂未量产
N	Planar	AP4N80F	4	800	30	/	3	3.5	5	3200	3800	—	—	TO220F-3L	暂未量产
N	Planar	AP4N80P	4	800	30	/	3	3.5	5	3200	3800	—	—	TO220-3L	暂未量产



N	Planar	AP4N80Y	4	800	30	/								TO251-3L	正常出货
N	Planar	AP6N80Y	6	800	30	/	2.5	3.5	4.5	1800	2200			TO251-3L	正常出货
N	SJ	APJ6N80D	6	800	30	/	2.5	3.5	4.5	800	900	—	—	TO252-3L	暂未量产
N	SJ	APJ6N80Y	6	800	30	/	2.5	3.5	4.5	800	900	—	—	TO251-3L	正常出货
N	Planar	AP7N80F	7	800	30	/	3	3.5	5	1200	1800	—	—	TO220F-3L	暂未量产
N	Planar	AP7N80P	7	800	30	/	3	3.5	5	1200	1800	—	—	TO220-3L	暂未量产
N	Planar	AP7N80T	7	800	30	/	3	3.5	5	1200	1800	—	—	TO263-3L	暂未量产
N	Planar	AP10N80F	10	800	30	/	3	3.5	5	740	1000	—	—	TO220F-3L	暂未量产
N	Planar	AP10N80P	10	800	30	/	3	3.5	5	740	1000	—	—	TO220-3L	暂未量产
N	Planar	AP10N80T	10	800	30	/	3	3.5	5	740	1000	—	—	TO263-3L	暂未量产
N	Planar	AP12N80F	10	800	30	/	3	3.5	5	670	800	—	—	TO220F-3L	暂未量产
N	Planar	AP12N80P	10	800	30	/	3	3.5	5	670	800	—	—	TO220-3L	暂未量产
N	Planar	AP12N80T	10	800	30	/	3	3.5	5	670	800	—	—	TO263-3L	暂未量产
N	SJ	APJ12N80F	12	800	30	/	2.5	3.5	4.5	800	900	—	—	TO220F-3L	正常出货
N	SJ	APJ12N80P	12	800	30	/	2.5	3.5	4.5	800	900	—	—	TO220-3L	正常出货
N	SJ	APJ12N80T	12	800	30	/	2.5	3.5	4.5	800	900	—	—	TO263-3L	正常出货
N	Planar	AP14N80MP	14	800	30	/	2.5	3.5	4.5	600	720	—	—	TO247-3L	暂未量产
N	SJ	APJ21N80F	21	800	30	/	2.5	3.5	4.5	600	720	—	—	TO220F-3L	正常出货
N	SJ	APJ21N80P	21	800	30	/	2.5	3.5	4.5	600	720	—	—	TO220-3L	正常出货
N	SJ	APJ21N80T	21	800	30	/	2.5	3.5	4.5	600	720	—	—	TO263-3L	正常出货
N	SJ	APJ28N80D	28	800	30	/								TO252-3L	正常出货
N	SJ	APJ28N80F	28	800	30	/	2.5	3.5	4.5	400	500	—	—	TO220F-3L	正常出货
N	SJ	APJ28N80P	28	800	30	/	2.5	3.5	4.5	400	500	—	—	TO220-3L	正常出货
N	SJ	APJ28N80T	28	800	30	/	2.5	3.5	4.5	400	500	—	—	TO263-3L	正常出货
N	SJ	APJ36N80F	36	800	30	/	2.5	3.5	4.5	300	360	—	—	TO220F-3L	正常出货
N	SJ	APJ36N80P	36	800	30	/	2.5	3.5	4.5	300	360	—	—	TO220-3L	正常出货
N	SJ	APJ36N80T	36	800	30	/	2.5	3.5	4.5	300	360	—	—	TO263-3L	正常出货
N	SJ	APJ45N80F	45	800	30	/	2.5	3.5	4.5	200	240	—	—	TO220F-3L	正常出货
N	SJ	APJ45N80P	45	800	30	/	2.5	3.5	4.5	200	240	—	—	TO220-3L	正常出货
N	SJ	APJ45N80T	45	800	30	/	2.5	3.5	4.5	200	240	—	—	TO263-3L	正常出货
N	Planar	AP3N90D	3	900	30	/	2	3.5	4	4000	4800	—	—	TO252-3L	暂未量产
N	Planar	AP3N90F	3	900	30	/	2	3.5	4	4000	4800	—	—	TO220F-3L	暂未量产
N	Planar	AP3N90P	3	900	30	/	2	3.5	4	4000	4800	—	—	TO220-3L	暂未量产
N	Planar	AP6N90F	6	900	30	/	2	3.5	4	1700	2000	—	—	TO220F-3L	正常出货
N	Planar	AP6N90P	6	900	30	/	2	3.5	4	1700	2000	—	—	TO220-3L	正常出货
N	Planar	AP6N90T	6	900	30	/	2	3.5	4	1700	2000	—	—	TO263-3L	正常出货
N	Planar	AP9N90F	9	900	30	/	2	3.5	4	920	1000	—	—	TO220F-3L	正常出货
N	Planar	AP4N80P	4	800	30	/	3	3.5	5	3200	3800	—	—	TO220-3L	暂未量产
N	Planar	AP9N90P	9	900	30	/	2	3.5	4	920	1000	—	—	TO220-3L	正常出货
N	Planar	AP9N90MP	9	900	30	/	2	3.5	4	920	1000	—	—	TO247-3L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压 Min(V)	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
							Min	Typ	Max	Typ	Max	Typ	Max		
N	Planar	AP13N90MP	13	900	30	/	3	3.5	4	600	700	—	—	TO247-3L	正常出货
N	Planar	AP2N100MSI	2	1000	30	/	3	3.5	4	8000	9600	—	—	SOT223-3L	正常出货
N	Planar	AP2N100D	2	1000	30	/	3	3.5	4	6000	7200	—	—	TO252-3L	正常出货
N	Planar	AP3N100D	2	1000	30	/	3	3.5	4	4600	5500	—	—	TO252-3L	正常出货
N	Planar	AP3N100F	2	1000	30	/	3	3.5	4	4600	5500	—	—	TO220F-3L	正常出货
N	Planar	AP3N100P	2	1000	30	/	3	3.5	4	4600	5500	—	—	TO220-3L	正常出货
N	Planar	AP3N100T	2	1000	30	/	3	3.5	4	4600	5500	—	—	TO263-3L	正常出货
N	Planar	AP5N100F	2	1000	30	/	3	3.5	4	1600	2000	—	—	TO220F-3L	正常出货
N	Planar	AP5N100P	2	1000	30	/	3	3.5	4	1600	2000	—	—	TO220-3L	正常出货
N	Planar	AP5N100T	2	1000	30	/	3	3.5	4	1600	2000	—	—	TO263-3L	正常出货
N	Planar	AP7N100F	7	1000	30	/	3	3.5	4	1200	1500	—	—	TO220F-3L	正常出货
N	Planar	AP7N100P	7	1000	30	/	3	3.5	4	1200	1500	—	—	TO220-3L	正常出货
N	Planar	AP7N100T	7	1000	30	/	3	3.5	4	1200	1500	—	—	TO263-3L	正常出货
N	Planar	AP3N120MP	3	1200	30	/	3	3.5	5	7500	8000	—	—	TO247-3L	正常出货
N	Planar	AP2N150MP	2	1500	30	/	3	3.5	5	115000	13000	—	—	TO247-3L	正常出货
N	Planar	AP3N150MP	3	1500	30	/	3	3.5	5	5500	6000	—	—	TO247-3L	正常出货

增强型 N+N-MOSFET

沟道	工艺	型号 Model	电流 (A)	耐压 Min(V)	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
							Min	Typ	Max	Typ	Max	Typ	Max		
N+N	Trench	AP8804DF	40+40	12	8	2500	0.4	0.6	1	—	—	3.3	4.3	WQFN3*3-8L	正常出货
N+N	Trench	AP8810B-LI	8.5+8.5	16	12		0.5	0.65	1	—	—	10	15	SOT23-6L	量产
N+N	Trench	AP9926A	6.5+6.5	20	12	/	0.5	0.7	1.2	—	—	20	28	SOP-8L	正常出货
N+N	Trench	AP9926B	6.0+6.0	20	12	/	0.5	0.7	1.2	—	—	24	30	SOP-8L	正常出货
N+N	Trench	AP9926C	4.2+4.2	20	12	/	0.5	0.7	1.2	—	—	40	50	SOP-8L	正常出货
N+N	Trench	AP9928A	10.5+10.5	20	12	/	0.5	0.7	1.2	—	—	12	18	SOP-8L	正常出货
N+N	Trench	AP8205A	6+6	20	12	/	-	0.75	1.2	—	—	20.5	27	SOT23-6L	正常出货
N+N	Trench	AP8205S	6+6	20	12	/	-	0.75	1.2	—	—	20.5	27	SOT23-6L	正常出货
N+N	Trench	AP8205A-21	6+6	20	12	/	0.5	0.7	1.2	—	—	21	27	TSSOP-8	正常出货
N+N	Trench	AP8205A-22	6+6	20	12	/	0.5	0.7	1.2	—	—	25	34	TSSOP-8	正常出货
N+N	Trench	AP8205A-14	8+8	20	12	/	0.5	0.7	1.2	—	—	14.5	20	TSSOP-8	正常出货
N+N	Trench	AP8814A	8+8	20	10	/	0.5	0.8	1.2	—	—	14	17	SOT23-6L	正常出货
N+N	Trench	AP8814TS	8+8	20	10	/	0.5	0.8	1.2	—	—	14	17	TSSOP-8	正常出货
N+N	Trench	AP8810E-11	9.5+9.5	20	12	2500	0.5	0.75	1.2	—	—	11.5	15	TSSOP-8	暂未量产
N+N	Trench	AP8806DF	35	20	8	2500	0.4	—	1.0	—	—	4.3	5.8	WQFN3*3-8L	正常出货
N+N	Trench	AP12H02TS	12+12	20	12	/	0.5	—	1.2	—	—	10	12.5	TSSOP-8	暂未量产
N+N	Trench	AP8809CF	9.5+9.5	20	12	2500	0.45	—	1.5	—	—	7.8	9	QFN2*3-6L	暂未量产
N+N	Trench	AP8809TS	15+15	16	12	/	0.5	0.8	1.1	—	—			TSSOP-8	正常出货
N+N	Trench	AP8808CF	12+12	20	12	2500	0.5	—	1.5	—	—	6	7.2	QFN2*3-6L	暂未量产
N+N	Trench	AP20H02TS	20+20	20	12	/	0.4	0.7	1.1	—	—	6.2	8.2	TSSOP-8	正常出货
N+N	Trench	AP20H02S	20+20	20	12	/	0.4	0.7	1.1	—	—	6.2	8.2	SOP-8L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压 Min(V)	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
							Min	Typ	Max	Typ	Max	Typ	Max		
N+N	Trench	AP40H02DF	40	20	12	/	0.5	0.75	1.2	—	—	8.5	10.5	PDFN3*3-8L	正常出货
N+N	Trench	AP50H02DF	50	20	12	/	0.5	0.75	1.2	—	—	6.5	10.5	PDFN3*3-8L	正常出货
N+N	Trench	AP3H03LI	3.6+3.6	30	20	/	0.5	0.85	1.3	35	60	52	75	SOT23-6L	正常出货
N+N	Trench	AP6H03LI	6.2	30	12	/	0.5	0.85	1.3	27	35	29	38	SOT23-6L	正常出货
N+N	Trench	AP6H03S	7.8+7.8	30	20	/	1	1.6	2.5	15	22	20	30	SOP-8L	正常出货
N+N	Trench	AP10H03DF	35+35	30	20	/	1	—	2.5	10	12	16	18	PDFN3*3-8L	正常出货
N+N	Trench	AP10H03LI	1	30	12	/	0.5	0.9	1.2	18	24	22	28	SOT23-6L	正常出货
N+N	Trench	AP10H03S	10+10	30	20	/	1	1.6	2.5	9	12	14	18	SOP-8L	正常出货
N+N	Trench	AP20H03DF	20+20	30	20	/	1	1.6	2.5	15.5	18.5	26.5	30	PDFN3*3-8L	正常出货
N+N	Trench	AP20H03NF	24.7+24.7	30	20	/	1	—	2.5	8.5	12	11.5	16.5	PDFN5*6-8L	正常出货
N+N	Trench	AP40H03DF	40+40	30	20	/	1	1.6	2.5	8.5	10	13	15	PDFN3*3-8L	正常出货
N+N	Trench	AP50H03NF2	50+50	30	20	/	1	1.6	2.5	4.8	6	6	9	PDFN5*6-8L	正常出货
N+N	Trench	AP60H03DF	60+60	30	20	/	1	1.6	2.5	7.2	9	11	13	PDFN3*3-8L	暂未量产
N+N	Trench	AP65H03NF2	65+65	30	20	/	1	1.6	2.5	5.3	7	8.4	10	PDFN5*6-8L	正常出货
N+N	Trench	AP80H03NF2	80+80	30	20	/	1	1.6	2.5	4.8	5.5	6.5	8	PDFN5*6-8L	正常出货
N+N	Trench	AP80H03GD	80+80	30	20	/	1	1.6	2.5	3.6	4.5	6.7	9.5	TO252-4L	暂未量产
N+N	Trench	AP100H03NF2	100	30	20	/								PDFN5*6-8L	暂未量产
N+N	Trench	AP6H04LI	6.3+6.3	40	20	/	1.2	1.5	2.5	28	38	40	50	SOT23-6L	正常出货
N+N	Trench	AP6H04S	6+6	40	20	/	1.2	1.5	2.5	24	30	22	25	SOP-8L	暂未量产
N+N	Trench	AP8H04S	10.8+10.8	40	20	/	1.2	1.6	2.5	16	20	20	36	SOP-8L	正常出货
N+N	Trench	AP8H04DF	10.8+10.8	40	20	/	1.2	1.6	2.5	16	23	20	36	PDFN3*3-8L	正常出货
N+N	Trench	AP10H04S	10+10	40	20	/	1	1.5	2	12.9	16	18.9	24	SOP-8L	暂未量产
N+N	Trench	AP15H04S	15+15	40	20	/	1.2	1.5	2.5	8.5	10	10	16	SOP-8L	正常出货
N+N	Trench	AP20H04NF	20+20	40	20	/	1	1.5	2	13	18	20	25	PDFN5*6-8L	暂未量产
N+N	Trench	AP20H04DF	20+20	40	20	/	1	1.5	2.5	19	25	28	36	PDFN3*3-8L	正常出货
N+N	Trench	AP20H04S	20+20	40	20	/	1	—	2.5	8.5	10.5	11	15	SOP-8L	暂未量产
N+N	Trench	AP30H04DF	30+30	40	20	/	1	1.6	2.5	11	14	13	18	PDFN3*3-8L	正常出货
N+N	Trench	AP30H04NF	30+30	40	20	/	1	1.6	2.5	11	14	13	18	PDFN5*6-8L	正常出货
N+N	Trench	AP35H04DF	35+35	40	20	/	1.2	1.5	2.5	8.6	10	10	16	PDFN3*3-8L	暂未量产
N+N	Trench	AP35H04NF	35+35	40	20	/	1.2	1.5	2.5	8.6	10	10	16	PDFN5*6-8L	正常出货
N+N	SGT V	AP40H04NF	40+40	40	20	/	1.2	1.6	2.5	6.9	9	10.5	15	PDFN5*6-8L	正常出货
N+N	SGT V	AP50H04DF	50+50	40	20	/	1.2	1.5	2.5	6.9	11	11	16	PDFN3*3-8L	正常出货
N+N	Trench	AP2N7002DW	0.3+0.3	60	20	2500	1	1.3	2.5	36	40	42	50	SOT363-6L	正常出货
N+N	Trench	AP4H06LI	4+4	60	20	/	0.9	1.3	2	62	85	85	120	SOT23-6L	正常出货
N+N	Trench	AP4H06S	4+4	60	20	/	1	—	2.5	36	40	42	50	SOP-8L	停产
N+N	Trench	AP6946A	7.2+7.2	60	20	/	1.0	1.6	2.5	28	35	33	45	SOP-8L	正常出货
N+N	Trench	AP8H06LI	8+8	60	20	/	1.2	1.6	2.5	40	50	48	60	SOT23-6L	暂未量产
N+N	Trench	AP8H06S	8+8	60	20	/	1.2	1.6	2.5	23	32	28	38	SOP-8L	正常出货
N+N	Trench	AP13H06S	13+13	60	20	/	1.2	1.6	2.5	18	24	20	28	SOP-8L	暂未量产
N+N	Trench	AP15H06S	15+15	60	20	/	1.2	1.6	2.5	11	18	15	20	SOP-8L	正常出货
N+N	Trench	AP20H06NF	20+20	60	20	/	1.2	1.6	2.5	33	40	42	50	PDFN5*6-8L	暂未量产
N+N	Trench	AP20H06S	20+20	60	20	/	1.2	1.5	2.5	8	12	11	15	SOP-8L	暂未量产



沟道	工艺	型号 Model	电流 (A)	耐压 Min(V)	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
							Min	Typ	Max	Typ	Max	Typ	Max		
N+N	Trench	AP40H06NF	30+30	60	20	/	1.2	1.5	2.5	22	30	28	38	PDFN5*6-8L	暂未量产
N+N	Trench	AP40H06DF	40+40	60	20	/	1.2	1.6	2.5	23	32	28	38	PDFN3*3-8L	正常出货
N+N	Trench	AP50H06NF	50+50	60	20	/	1.2	1.6	2.5	11	16	15	20	PDFN5*6-8L	正常出货
N+N	SGT I	AP70H06NF	70+70	60	20	/	1.2	1.8	2.5	7.5	10	10	13	PDFN5*6-8L	正常出货
N+N	SGT I	AP80H06NF	80+80	60	20	/	1.2	1.8	2.5	4.5	5.5	5.2	6.6	PDFN5*6-8L	正常出货
N+N	SGT I	AP300H06GF2	300	60	20	/	2	2.8	4	1.6	2	/	/	DFN8*8-6L	正常出货
N+N	Trench	AP8H10S	8.3+8.3	100	20	/	1	1.6	2.5	100	120	115	135	SOP-8L	正常出货
N+N	Trench	AP10H10S	12+12	100	20	/	1.2	2	2.5	72	100	85	120	SOP-8L	正常出货
N+N	Trench	AP40H10NF	40+40	100	20	/	1.2	1.5	2.5	14	20	18	25	PDFN5*6-8L	正常出货
N+N	Trench	AP5H15S	5+5	150	20	/	1.2	1.8	2.5	250	320	280	350	SOP-8L	正常出货

增强型 P+P-MOSFET

沟道	工艺	型号 Model	电流 (A)	耐压 Min(V)	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
							Min	Typ	Max	Typ	Max	Typ	Max		
P+P	Trench	AP4V02LI	-4.5	-20	12	/	-0.4	-0.62	-1.2	—	—	42	55	SOT23-6L	正常出货
P+P	Trench	AP4953B	-6.5	-20	12	/	-0.4	-0.62	-1.2	—	—	42	55	SOP-8L	正常出货
P+P	Trench	AP10V02S	-10	-20	12	/	-0.5	-0.6	-1.2	—	—	24	32	SOP-8L	正常出货
P+P	Trench	AP15V02S	-15	-20	12	/	-0.5	-0.6	-1.2	—	—	13	18	SOP-8L	正常出货
P+P	Trench	AP20V02DF	-20	-20	12	/	-0.5	-0.6	-1.2	—	—	24	32	PDFN3*3-8L	正常出货
P+P	Trench	AP30V02DF	-30	-20	12	/	-0.5	-0.6	-1.2	—	—	13	18	PDFN3*3-8L	正常出货
P+P	Trench	AP6V03S	-6	-30	20	/	-1.2	-1.6	-2.5	45	52	60	75	SOP-8L	正常出货
P+P	Trench	AP4953A	-7	-30	20	/	-1.2	-1.6	-2.5	37	48	58	65	SOP-8L	正常出货
P+P	Trench	AP4955A	-7.5	-30	20	/	-1.2	-1.6	-2.5	22	25	32	42	SOP-8L	正常出货
P+P	Trench	AP4957A	-8.8	-30	20	/	-1	-1.6	-2.5	16	20	25	35	SOP-8L	正常出货
P+P	Trench	AP8V03S	-8	-30	20	/	-1	-1.6	-2.5	15	25	25	35	SOP-8L	暂未量产
P+P	Trench	AP4959A	-12	-30	20	/	-1.2	-1.5	-2.5	12	18	18	23	SOP-8L	正常出货
P+P	Trench	AP4961A	-15	-30	20	/	-1.2	-1.5	-2.5	9	13	16	20	SOP-8L	暂未量产
P+P	Trench	AP30V03DF	-30	-30	20	/	-1	-1.6	-2.5	16	20	25	35	PDFN3*3-8L	正常出货
P+P	Trench	AP40V03NF	-40	-30	20	/	-1.2	-1.5	-2.5	12	18	18	23	PDFN5*6-8L	正常出货
P+P	Trench	AP80V03NF	-80	-30	20	/	-1.2	-1.5	-2.5	6	8	8	10	PDFN5*6-8L	正常出货
P+P	Trench	AP6V04S	-6	-40	20	/	-1.2	-1.5	-2.5	55	65	72	80	SOP-8L	暂未量产
P+P	Trench	AP8V04S	-8.2	-40	20	/	-1	-1.6	-2.5	35	40	48	65	SOP-8L	正常出货
P+P	Trench	AP10V04S	-10	-40	20	/	-1.2	-1.5	-2.5	25	32	35	42	SOP-8L	暂未量产
P+P	Trench	AP12V04S	-12	-40	20	/	-1	-1.6	-2.5	15	18	18	20	SOP-8L	正常出货
P+P	Trench	AP15V04S	-15	-40	20	/	-1	-1.6	-2.5	10.5	13	15	20	SOP-8L	暂未量产
P+P	Trench	AP50V04NF	-50	-40	20	/	-1	-1.6	-2.5	9.8	13	15	20	PDFN5*6-8L	正常出货
P+P	Trench	AP4V05S	-5.5	-55	20	/	-1	-1.6	-2.5	110	125	125	155	SOP-8L	正常出货
P+P	Trench	AP8V05S	-8.8	-55	20	/	-1	-1.6	-2.5	85	110	98	150	SOP-8L	正常出货
P+P	Trench	AP2V06LI	-2.8	-60	20	/	-1.2	-1.5	-2.5	180	185	180	266	SOT23-6L	正常出货
P+P	Trench	AP6V06S	-6	-60	20	/	-1.2	-1.5	-2.5	65	85	80	100	SOP-8L	正常出货
P+P	Trench	AP8V06S	-8	-60	20	/	-1.2	-1.5	-2.5	60	80	64	105	SOP-8L	正常出货
P+P	Trench	AP15V06S	-15	-60	20	/	-1.2	-1.5	-2.5	36	45	42	50	SOP-8L	暂未量产
P+P	Trench	AP30V06NF	-30	-60	20	/	-1.2	-1.5	-2.5	36	45	42	50	PDFN5*6-8L	暂未量产



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	ESD (KV)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)			Min	Typ	Max	Typ	Max	Typ	Max		
P+P	Trench	AP8V10S	-8	-100	20	/	-1.2	-1.6	-2.5	90	120	100	130	SOP-8L	正常出货

增强型 N+P-MOSFET

沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)		Min	Typ	Max	Typ	Max	Typ	Max		
N+P	Trench	AP3G02LI	3/-3	20/-20	12	0.5/-0.4	0.65/-0.65	1.2/-1.5	—	—	38/64	45/80	SOT23-6L	量产
N+P	Trench	AP4G02LI	4.5/-3.8	20/-20	12	0.5/-0.45	0.75/-0.6	1.2/-1.2	—	—	28/55	35/80	SOT23-6L	正常出货
N+P	Trench	AP4606C	4.5/-3.8	20/-20	12	0.5/-0.45	0.75/-0.6	1.2/-1.2	—	—	28/55	35/80	SOP-8L	正常出货
N+P	Trench	AP8G02LI	4.5/-3.8	20/-20	12	0.5/-0.45	0.75/-0.6	1.2/-1.2	—	—	28/55	35/80	SOT23-6L	正常出货
N+P	Trench	AP10G02LI	12+9.8	20/-20	12	0.5/-0.40	0.65/-0.7	1.2/-1.2	—	—	10/15	15/35	SOT23-6L	正常出货
N+P	Trench	AP10G02S	12+9.8	20/-20	12	0.5/-0.40	0.65/-0.7	1.2/-1.2	—	—	10/15	15/35	SOP-8L	正常出货
N+P	Trench	AP20G02DF	28+22	20/-20	12	0.58/-0.4	0.65/-0.7	1.2/-1.2	—	—	7.7/16.8	10/20	PDFN3*3-8L	正常出货
N+P	Trench	AP25G02NF	32/-26.8	20/-20	12	0.58/-0.4	0.65/-0.7	1.2/-1.2	—	—	7.7/16.8	10/20	PDFN5*6-8L	正常出货
N+P	Trench	AP3G03LI	3.8/-3.2	30/-30	12	0.6/-0.6	—	1.4/-1.4	50/107	60/120	60/135	75/170	SOT23-6L	暂未量产
N+P	Trench	AP4606A	6.2/-4.8	30/-30	20	1/-1	1.6/-1.7	2.5/-2.5	16/42	24/55	24/68	40/85	SOP-8L	正常出货
N+P	Trench	AP5G03DF	8/-6.2	30/-30	20	0.9/-1.2	1.1/-1.5	2.2/-2.5	18/43	20/48	21/66	30/75	PDFN3*3-8L	正常出货
N+P	Trench	AP6G03S	6/-6	30/-30	20	1.2/-1.2	1.5/-1.5	2.5/-2.5	18.5/35.2	22/42	30.3/42.6	37/50	SOP-8L	正常出货
N+P	Trench	AP6G03LI	6/-6	30/-30	12	1.2/-1.2	1.5/-1.5	2.5/-2.5	18/43	20/48	21/66	30/75	SOT23-6L	正常出货
N+P	Trench	AP6G03BLI	6/-6	30/-30	12	1.2/-1.2	1.5/-1.5	2.5/-2.5	18/43	20/48	21/66	30/75	SOT23-6L	正常出货
N+P	Trench	AP8G03S	9.8/-9.8	30/-30	20	1.2/-1.2	1.5/-1.5	2.5/-2.5	16/16	25/25	24/25	35/30	SOP-8L	正常出货
N+P	Trench	AP10G03S	12/-9.8	30/-30	20	1.2/-1.2	—	2.5/-2.5	—	12/25	—	18/42	SOP-8L	正常出货
N+P	Trench	AP15G03NF	18/-15	30/-30	20	1.0/-1	1.6/	2.5/-2.5	15/25	22/32	20/37	30/54	PDFN5*6-8L	正常出货
N+P	Trench	AP15G03DF	19.3/-16.5	30/-30	20	1.2/-1	1.6/-1.6	2.5/-2.5	9/21	12/25	13/33	16/38	PDFN3*3-8L	正常出货
N+P	Trench	AP20G03GD	25/-18	30/-30	20	1.0/-1.0	1.6/-1.7	2.5/-2.5	15/36	25/42	24/52	40/60	TO252-4L	正常出货
N+P	Trench	AP20G03NF	28/-19.7	30/-30	20	1.2/-1.0	1.6/-1.6	2.5/-2.5	8.5/20	12/25	11/28	16/38	PDFN5*6-8L	正常出货
N+P	Trench	AP25G03GD	25/-24	30/-30	20	1.0/-1.0	1.6/	2.5/-2.5	15/25	22/32	20/37	30/54	TO252-4L	正常出货
N+P	Trench	AP30G03NF	30/-30	30/-30	20	1.2/-1.2	1.5/-1.5	2.5/-2.5	8.5/20	12/25	11/28	16/38	TO252-4L	正常出货
N+P	Trench	AP30G03GD	30/-30	30/-30	20	1.2/-1.2	1.5/-1.5	2.5/-2.5	8.5/20	12/25	11/28	16/38	TO252-4L	正常出货
N+P	Trench	AP40G03NF	42/-38	30/-30	20	1/-1.2	1.4/	2.5/-2.5	6.5/9	10/13	10/16	13/20	PDFN5*6-8L	正常出货
N+P	Trench	AP50G03GD	52/-48	30/-30	20	1.2/-1.2	1.6/-1.5	2.5/-2.5	7.2/8.8	10/13	11/16	16/20	TO252-4L	正常出货
N+P	Trench	AP80G03GD	80/-72	30/-30	20	1.0/-1.2	1.6/-1.6	2.5/-2.5	4.5/6.2	6.5/8	6.1/11	8.5/13	TO252-4L	正常出货
N+P	Trench	AP80G03NF	80/-72	30/-30	20	1.0/-1.2	1.6/-1.6	2.5/-2.5	4.5/6.2	6.5/8	6.1/11	8.5/13	PDFN5*6-8L	正常出货
N+P	Trench	AP6G04LI	6.3/-6.1	40/-40	20	1.0/-1.0	1.5/-1.5	2.5/-2.5	30/62	37/75	40/81	50/100	SOT23-6L	正常出货
N+P	Trench	AP6G04S	6.3/-6.1	40/-40	20	1.0/-1.0	1.5/-1.5	2.5/-2.5	30/62	37/75	40/81	50/100	SOP-8L	正常出货
N+P	Trench	AP8G04S	8.3/-6.3	40/-40	20	1.2/-1.0	1.6/-1.6	2.5/-2.5	18/42	26/50	25/48	35/60	SOP-8L	正常出货
N+P	Trench	AP10G04S	9.8/-7.5	40/-40	20	1.0/-1.0	—	2.5/-2.5	17.5/38	26/45	25/48	35/60	SOP-8L	正常出货
N+P	Trench	AP10G04DF	9.8/-7.5	40/-40	20	1.0/-1.0	1.6/-1.6	2.5/-2.5	17.5/38	26/45	25/48	35/60	PDFN3*3-8L	正常出货
N+P	Trench	AP15G04S	23/-20	40/-40	25	1.2/-1.0	1.6/-1.6	2.5/-2.5	10/20	18/28	18.4/32	24/42	SOP-8L	正常出货
N+P	Trench	AP15G04NF	21/-18	40/-40	20	1.2/-1.2	1.6/-1.6	2.5/-2.5	13.5/35	17/45	18.4/48	24/60	PDFN5*6-8L	正常出货
N+P	Trench	AP20G04DF	23/-20	40/-40	20	1.2/-1.0	1.6/-1.6	2.5/-2.5	12/24	18/32	18.4/32	24/42	PDFN3*3-8L	正常出货
N+P	Trench	AP20G04GD	20/-18	40/-40	20	1.0/-1.2	1.5/-1.5	2.5/-2.5	24/42	32/48	38/48	48/60	TO252-4L	正常出货
N+P	Trench	AP20G04NF	23/-20	40/-40	20	1.2/-1.0	1.6/-1.6	2.5/-2.5	13.5/24	18/32	18.4/32	24/42	PDFN5*6-8L	正常出货
N+P	Trench	AP20G04S	28/-23	40/-40	20	1.2/-1	1.6/-1.6	2.5/-2.5	8/13	13/18	10/18	16/25	SOP-8L	正常出货



沟道	工艺	型号 Model	电流 (A)	耐压	V _{GS} (±V)	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
				Min(V)		Min	Typ	Max	Typ	Max	Typ	Max		
N+P	Trench	AP25G04GD	28/-25	40/-40	20	1.2/-1.2	1.6/-1.7	2.5/-2.5	18/32	26/42	25/48	35/60	TO252-4L	正常出货
N+P	Trench	AP40G04NF	42/-38	40/-40	20	1/-1.2	-1.4	2.5/-2.5	6.5/9	10/13	10/16	13/20	PDFN5*6-8L	正常出货
N+P	Trench	AP40G04GD	48/-43	40/-40	20	1.2/-1.0	1.6/-1.6	2.5/-2.5	8.0/13	10/18	10/18	16/25	TO252-4L	正常出货
N+P	Trench	AP50G04GD	42/-38	40/-40	20	1/-1.2	-1.4	2.5/-2.5	6.5/9	10/13	10/16	13/20	TO252-4L	正常出货
N+P	Trench	AP4G06LI	5/-5	60/-60	20	1.2/-1.2	1.6/	2.5/-2.5	28/50	36/70	/75	38/85	SOT23-6L	正常出货
N+P	Trench	AP4G06S	5/-5	60/-60	20	1.2/-1.2	1.6/	2.5/-2.5	75/165	100/200	95/200	120/250	SOP-8L	正常出货
N+P	Trench	AP8G06S	8.5/-7.7	60/-60	20	1.2/-1.2	1.75/-1.75	2.5/-2.5	38/80	52/100	55/100	75/105	SOP-8L	正常出货
N+P	Trench	AP10G06S	12.5/-9.7	60/-60	20	1.2/-1.2	1.6/	2.5/-2.5	28/50	36/70	/75	38/85	SOP-8L	正常出货
N+P	Trench	AP10G06NF	10/-9.5	60/-60	20	1.2/-1.2	1.6/-1.5	2.5/-2.5	35/55	40/70	38/75	45/105	PDFN5*6-8L	正常出货
N+P	Trench	AP20G06GD	25/-19	60/-60	20	1.2/-1.2	1.75/-1.75	2.5/-2.5	32/70	40/90	48/88	60/100	TO252-4L	正常出货
N+P	Trench	AP30G06GD	36/-29	60/-60	20	1.2/-1.2	1.6/-1.6	2.5/-2.5	25/48	36/58	32/64	38/80	TO252-4L	正常出货
N+P	Trench	AP40G06NF	42/-38	60/-60	20	1.2/-1.2	1.75/-1.75	2.5/-2.5	32/70	40/90	48/88	60/100	PDFN5*6-8L	正常出货
N+P	Trench	AP50G06GD	55/-48	60/-60	20	1.2/-1.2	1.75/-1.75	2.5/-2.5	32/70	40/90	48/88	60/100	TO252-4L	正常出货
N+P	Trench	AP5G10S	8.8/4.8	100/-100	20	1.2/-1.2	2/-1.85	2.5/-2.5	85/250	120/300	95/260	150/340	SOP-8L	正常出货
N+P	Trench	AP10G10NF	8/-6.5	100/-100	20	1.0/-1	1.7/	3/-3	55/170	75/210	112/190	300/230	PDFN5*6-8L	暂未量产
N+P	Trench	AP15G10GD	17.8/12.8	100/-100	20	1.2/-1.2	2/-1.85	2.5/-2.5	85/250	120/300	95/260	150/340	TO252-4L	正常出货
N+P	Trench	AP25G10GD	25/23.8	100/-100	20	1.2/-1.2	2/-1.6	2.5/-2.5	72/85	100/100	85/88	120/120	TO252-4L	正常出货
N+P	Trench	AP25G10NF	25/23.8	100/-100	20	1.2/-1.2	2/-1.6	2.5/-2.5	72/85	100/100	85/88	120/120	PDFN5*6-8L	正常出货
N+P	Trench	AP5G15NF	5	150/-150	20	1.2/-2.0	1.8/-3.0	2.5/-4.0	250/620	320/780	280/700	385/980	PDFN5*6-8L	正常出货
N+P	Planar	AP3G20NF	4.8+3.8	200/-200	20	2.0/-2.0	3.0/-3.5	4.0/-4.0	530/1400	600/1700	—	—	PDFN5*6-8L	正常出货
N+N	Trench	AP8H06S	8+8	60	20	1.2	1.6	2.5	23	32	28	38	SOP-8L	正常出货
N+N	Trench	AP13H06S	13+13	60	20	1.2	1.6	2.5	18	24	20	28	SOP-8L	暂未量产
N+N	Trench	AP15H06S	15+15	60	20	1.2	1.6	2.5	11	18	15	20	SOP-8L	正常出货
N+N	Trench	AP20H06NF	20+20	60	20	1.2	1.6	2.5	33	40	42	50	PDFN5*6-8L	暂未量产
N+N	Trench	AP20H06S	20+20	60	20	1.2	1.5	2.5	8	12	11	15	SOP-8L	暂未量产
N+N	Trench	AP40H06NF	30+30	60	20	1.2	1.5	2.5	22	30	28	38	PDFN5*6-8L	暂未量产
N+N	Trench	AP40H06DF	40+40	60	20	1.2	1.6	2.5	23	32	28	38	PDFN3*3-8L	正常出货
N+N	Trench	AP50H06NF	50+50	60	20	1.2	1.6	2.5	11	16	15	20	PDFN5*6-8L	正常出货
N+N	SGT I	AP70H06NF	70+70	60	20	1.2	1.8	2.5	7.5	10	10	13	PDFN5*6-8L	正常出货
N+N	SGT I	AP80H06NF	80+80	60	20	1.2	1.8	2.5	4.5	5.5	5.2	6.6	PDFN5*6-8L	正常出货
N+N	SGT I	AP300H06GF2	300	60	20	2	2.8	4	1.6	2	/	/	DFN8*8-6L	正常出货
N+N	Trench	AP8H10S	8.3+8.3	100	20	1	1.6	2.5	100	120	115	135	SOP-8L	正常出货
N+N	Trench	AP10H10S	12+12	100	20	1.2	2	2.5	72	100	85	120	SOP-8L	正常出货
N+N	Trench	AP40H10NF	40+40	100	20	1.2	1.5	2.5	14	20	18	25	PDFN5*6-8L	正常出货
N+N	Trench	AP5H15S	5+5	150	20	1.2	1.8	2.5	250	320	280	350	SOP-8L	正常出货

耗尽型 N-MOSFET

Type	工艺	型号 Model	电流	耐压	V _{GS} (±V)	ESD KV	V _{GS} (th) (V)			R _{dson} @10V(mΩ)		R _{dson} @4.5V(mΩ)		封装 package	状态 State
			A	V			Min	Typ	Max	Typ	Max	Typ	Max		
N	Depletion	APD02N07AI	0.2	70	±30	0.3	-13	-17	-21	15	20	16	25	SOT-23	销售中
N	Depletion	APD02N15AI	0.2	150	±20	0.3	-8	-6.5	-5	7	10	10	15	SOT-23	销售中
N	Depletion	APD03N60AI	0.03	600	±20	0.3	-2.7	-1.8	-1	400	800	350	700	SOT-23	销售中



品质

可靠

高效

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江苏省无锡市新吴区景贤路中科智慧产业园 906

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