



GOFORD MOSFET Official Website

Smart Customer Service FAQ

Product Selection · Technical Support · Purchasing
Guide · Compliance Documents

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1. Product Fundamentals

[1. What is a MOSFET? What types are available?](#)

A MOSFET (Metal-Oxide-Semiconductor Field-Effect Transistor) is a voltage-controlled power switching device featuring fast switching speed, low power consumption, and simple driving. Mainstream types are classified into N-Channel and P-Channel; by process technology, there are Trench MOS, SGT MOS, VD MOS, SJ MOS, etc.; by material, there are silicon-based products and wide-bandgap products such as SiC and GaN, suitable for a wide range of power circuits.

[2. How do I choose between N-Channel and P-Channel MOSFETs? What are the differences?](#)

- **N-Channel:** preferred for low-side switching and high-frequency rectification.
- **P-Channel:** suited for high-side power switches, reverse current blocking, and battery protection.

The core differences are conduction polarity, driving method, and application topology. Choose based on your circuit topology.

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3. Do your products support automotive / industrial-grade standards?

All products come standard with industrial-grade rating and excellent stability; selected series achieve automotive-grade rating, capable of withstanding harsh conditions including extreme temperatures, avalanche withstand voltage, and high heat dissipation. They are suitable for new energy vehicles, industrial control equipment, automotive BMS, AI server power supplies, industrial test equipment, and more.

4. What are the characteristics of P-Channel MOSFETs?

Simple driving and high input impedance as voltage-controlled devices; when used as high-side switches, the gate can be driven directly by logic levels, simplifying circuit design.

2. Product Series, Features & Packaging

1. GOFORD main product series

- **Low voltage $\leq 100V$** , e.g. 12V 20V 30V 40V 60V 80V 100V
- **Medium voltage 100V~500V**, e.g. 120V 150V 200V 250V 300V
- **High voltage $\geq 500V$** , e.g. 500V 600V 650V 700V 800V 900V 1000V
- **Wide-bandgap products:** SiC (Silicon Carbide) currently available; GaN (Gallium Nitride) to be launched soon
- **Packaging options:** single, dual, half-bridge, and full-bridge configurations.

2. GOFORD core product highlights

- **Complete mid/low-voltage PMOS portfolio:** P-Channel coverage across -12V/-20V/-40V/-60V/-80V/-100V/-150V/-200V/-250V series.
- **Ultra-low on-resistance:** Trench + SGT process; N60 as low as 0.8m Ω , N100 as low as 1.1m Ω , P60 as low as 2.7m Ω , P100 as low as 7.4m Ω , significantly reducing heat and conduction losses.
- **Wide-voltage driving:** minimal $R_{ds(on)}$ variation at low gate voltage (-4.5V); can be driven directly by an MCU without extra level shifting; ideal for Li-ion batteries and automotive reverse-connection protection.
- **High current + high reliability:** high-voltage PMOS single device supports up to 200A continuous current; 100% avalanche testing on all batches for strong surge immunity; paired with TOLL and DFN clip-bonded cooling packages offering low thermal resistance and high power density.
- **Full-size package coverage:** from small-signal SOT-23 to high-power TO-220/TOLL/DFN, with complete single and dual device options for both compact devices and industrial high-power supplies.

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3. Standard package types

TO-252, TO-220, TO-263, TOLL-8L, DFN56-8L, TO-247, DFN33-8L, SOP-8, SOT-223, SOP-8 DUAL, SOT-23, TO-263-6, TO-220F, TO-251, SOT-23-3, SOT-23-6L, sTOLL, DFN33-8L DUAL, DFN22-6L, TSSOP-8, SOT-23-6L DUAL, DFN56-8L DUAL, PQFN5X6 dual-side cooling (DSC), TO-252-4 DUAL, SOT-89, TO-92, TOLT, DFN88-4L.

4. Featured packages

TOLL-8L, sTOLL, PQFN5X6, dual-side cooling (DSC), TOLT.

5. Packages supported by P-Channel MOSFETs

DFN22-6L, DFN33-8L, DFN5*6-8L, SOP-8, SOT-223, SOT-23, SOT-23-3, SOT-23-6L, sTOLL, TO-220, TO-220F, TO-247, TO-251, TO-252, TO-263, TO-263-6, TOLL-8L, TSSOP-8.

6. GOFORD latest R&D directions

Focusing on low on-resistance, high-current 100V/150V/200V products and P100V/P200V/P250V/P500V products; adopting high-density packaging processes such as TOLL, TOLT, and dual-side cooling to deliver high-performance, high-reliability devices with superior heat dissipation.

3. Selection Parameters & Technology Differences

1. Key MOSFET selection parameters

Rated voltage V_{ds} , rated current I_d , on-resistance $R_{ds(on)}$, gate charge Q_g , switching frequency, package size, avalanche capability, and thermal performance — combined with circuit voltage, load current, drive voltage, and switching frequency, selection can be completed.

2. Advantages of ultra-low on-resistance $R_{ds(on)}$

Greatly reduces conduction losses, lowers device temperature, and improves overall system efficiency; ideal for high-frequency, high-current, long-duration full-load operation, extending product service life.

3. Difference between Super Junction MOSFETs and conventional MOSFETs

In conventional high-voltage MOSFETs, on-resistance grows cubically as voltage rating increases. Super Junction MOSFETs use alternating N/P pillars in the drift region, boosting the doping concentration by 5~10 times while maintaining high voltage capability, significantly reducing on-resistance while delivering fast switching and low losses.

Note: GOFORD GC-series models are Super Junction MOSFETs; the equivalent from Infineon is CoolMOS™.

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4. Features of GT-series models

Using Split Gate Trench (SGT) technology, the gate is split into a shield electrode and a control gate, reducing Miller capacitance and switching losses; ideal for high-frequency applications such as fast charging. Infineon's equivalent process is named OptiMOS™.

5. Differences and selection of TO-220 / TO-263 / TO-247

- **TO-220:** through-hole package, suitable for manual soldering and high-power applications;
- **TO-263:** surface-mount package, suitable for SMT automated production lines;
- **TO-247:** mostly used in ultra-high-power applications.

Choose based on the soldering method and PCB layout.

6. Can core parameters be customized?

Standard models strictly follow the original factory specifications; customization of voltage, current, and on-resistance parameters is supported. Contact the business team to evaluate solutions and lead times.

7. Are your products compatible with Infineon, Vishay, IXYS, etc.?

Models with identical parameters are fully pin-to-pin compatible, with identical electrical performance and package dimensions, enabling direct, seamless replacement.

4. Application-Based Recommendations & Use Cases

1. Overall MOSFET application fields

Covering consumer electronics, smart home, new energy vehicles, BMS battery management, motor drives, switching power supplies, industrial automation, photovoltaic energy storage, smart grid, wireless IoT, aerospace support, AI server power supplies, humanoid robots, and other power electronics scenarios.

2. Low / high-voltage MOS application scenarios

- **Low-voltage MOS ($\leq 100V$):** power banks, adapters, small home appliances, automotive low-voltage circuits, motor control;
- **Mid/high-voltage MOS ($> 100V$):** high-power supplies, PV inverters, energy storage systems, industrial high-voltage control equipment.

3. P200V P-Channel MOS application fields

Consumer electronics, industrial automation, power management, new energy storage, and general switching; no bootstrap circuit required, simplifying PCB design, and serving as a direct replacement for imported 200V P-Channel MOS such as IRF9640.

4. Recommended part numbers for BMS (Battery Management System)

N-Channel (main power path)

Part Number	Rating	Package	Rds(on)	Features
GT015N06TL / GT015N06TLA	60V / 350A	TOLL	0.77mΩ	For high-power BMS charge/discharge main loop
GT013N04D5C	40V / 270A	DFN5×6	0.73mΩ	Qg=88nC, low loss, fast switching
GT011N08TL	80V / 350A	TOLL	—	For high cell-count battery packs

P-Channel (simplified drive design)

Part Number	Rating	Package	Rds(on)	Features
G080P06 Series	-60V / -195A	DFN5×6 / TO-220	<7.5mΩ	—
G230P06 Series	-60V / -60A	—	<20mΩ	Cost-effective option
GT400P10 Series	-100V	—	<45mΩ	Compact high-side solution
GT880P15 Series	-150V	—	<140mΩ	—
GT2K0P20 Series	-200V	—	<230mΩ	Preferred for automotive-grade high-voltage high-side applications

5. Recommended part numbers for inverters

Part Number	Rating	Rds(on)	Application
GT013N04D5C	40V / 270A	0.73mΩ	Low-voltage high-current inverters, power tools, low-voltage motors
GT080N10M	100V / 70A	6.6mΩ	48V systems, industrial stepper motors
GT043N15TL	150V / 202A	3.7mΩ	80V-bus industrial control, power conversion
GS65R060Q4A	650V / 42A (SiC)	60mΩ	PV inverters, high-frequency power supplies
GT065P06 Series	-60V / -82A~-103A	As low as 7.5mΩ	Simplified gate driving

6. Recommended part numbers for EV chargers

High-frequency PFC / DC-DC stage (SiC MOS)

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Part Number	Rating	Rds(on)	Features
GS65R060Q4	650V / 42A	60mΩ	Fast switching, for charger main power loop

Low-voltage auxiliary / output stage

Part Number	Rating	Package	Features
GT013N04D5C	40V / 270A	—	Low-voltage output, auxiliary power, synchronous rectification
GT015N06TL	60V / 350A	TOLL	For 24V bus

General switching / rectifier circuits

Part Number	Rating	Features
GT023N10TL	100V high current	For inverters, regulated power supplies, UPS

Selection tips: prefer SiC MOS for the main PFC stage; use 40V/60V low on-resistance series on the low-voltage side for high reliability.

7. Recommended part numbers for switching power supplies

High-voltage AC-DC (flyback / forward)

Part Number	Rating	Rds(on)	Application
7N60 / 7N60F	600V / 7A	1.3Ω	Small-to-medium power supplies, chargers, LED drivers
10N60 / 10N60F	600V / 10A	0.75Ω	High-efficiency power supplies, active PFC
12N60 / 12N60F	600V / 12A	0.65Ω	Medium-to-high power supplies

High-frequency, high-efficiency (SiC MOS)

Part Number	Rating	Application
GS65R060Q4A	650V / 42A	High-frequency, high-efficiency power supplies, PFC modules

High-side / auxiliary circuits (P-Channel)

Part Number	Rating	Application
GT065P06 Series	-60V	Simple driving; for high-side of low-

		voltage switches and output switch control
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Low-voltage high-current DC-DC

Part Number	Rating	Application
GT013N04D5C	40V / 270A	Low-voltage high-current DC-DC
GT015N06TL	60V / 350A	For 48V bus power supplies

8. Recommended part numbers for UPS (Uninterruptible Power Supply)

UPS Type	Recommended Part Number	Rating / Package
Home small power ($\leq 1\text{kVA}$)	G120N04A, GT095N04D5	Battery-side rectification / switching; TO-220, TO-252
Online 1~10kVA	GT070N15TA / MA	150V; isolated inverter low-voltage bridge; TO-220, D2PAK
Rack 10~100kVA	GT023N10TL	100V; bidirectional DC-DC boost; TOLL-8L
Full-series UPS PFC front-end	GC11N65, GC040N65QF	650V Super Junction MOS; TO-220 / D2PAK / TO-247

9. How to choose between MOSFET and IGBT based on the application?

Provide your application field, operating voltage, load current, switching frequency, drive voltage, circuit topology, and package preference — we will provide model recommendations and complete solutions free of charge.

5. Technical Usage & Troubleshooting

1. Causes of severe MOSFET heating during operation and solutions

Causes: high conduction losses, high switching losses, poor thermal design, device operating in the linear region, gate drive oscillation, or operation beyond rated conditions.

Solutions: choose models with low $R_{ds(on)}$ and low Q_g ; optimize the gate drive circuit and drive resistor; upgrade the thermal design; never operate beyond rated voltage or current.

2. Causes of device breakdown and burn-out failures

Common triggers: exceeding rated voltage/current, device not fully saturated, voltage spike surges, avalanche overload, abnormal gate drive, insufficient cooling, and high-frequency interference.

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Recommendations: strictly follow the datasheet parameters; add protection circuits; optimize PCB layout and thermal design.

3. How to optimize switching performance and reduce losses?

- Choose models with low gate charge and low on-resistance
- Configure the gate drive resistor properly and optimize drive voltage
- Control switching frequency and suppress voltage/current spikes

4. Does terminal oxidation affect performance?

Slight oxidation of silver-plated terminals is a normal phenomenon and does not affect electrical or thermal performance; if appearance matters, wipe with an antistatic eraser.

Storage recommendation: ambient temperature 5~35°C, humidity 10%~75%.

5. What should I do if sample testing fails?

Provide the test data and test environment; our technical team will help troubleshoot the issue and re-match a suitable part number.

6. Samples, Orders, Lead Times & Procurement

1. Sample requests

Sample requests are supported across the full product series for R&D testing and solution validation; free samples are available for standard models, with shipping paid by the customer.

Purchasing channels: samples can be purchased directly from the factory or through platforms such as DigiKey, LCSC, and Alibaba. Long-term key accounts may apply for sample discounts.

2. Stock and lead times

Standard common models are kept in stock and can ship within 1~3 business days. Lead times for special packages, automotive-grade, and custom models are negotiable, with stable supply for large volumes. Rush production for forward orders is available upon separate agreement.

3. Minimum Order Quantity (MOQ)

Standard models support sample, small-batch, and large-batch orders; there is no strict MOQ for samples, and mass production follows standard packaging.

4. Quotations

Provide the model number, quantity, and delivery destination to receive a formal quotation. Standard quotes are valid for 7~15 days and may be adjusted slightly due to raw material and tariff fluctuations. Contact local distributors for supporting services.

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5. Invoicing

Domestic orders: special VAT invoice and general VAT invoice are available.

Export orders: full export documentation is provided, including Proforma Invoice (PI), customs declaration, packing list, and more.

6. Purchasing channels

Purchase directly from the factory or through local distributors / sales representatives (distributors can provide more supporting services).

Online platforms	DIGIKEY, VERICAL, CHIP1STOP, CORESTAFF, LCSC (szlcsc)
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7. Product information lookup platforms

Verical	www.verical.com
DigiKey	www.digikey.com
Z2Data	www.z2data.com
SiliconExpert	www.siliconexpert.com
CoreStaff	http://www.corestaff.co.jp/hk/
ZaikoStore	https://www.zaikostore.com/zaikostore/en
LCSC	www.szlcsc.com
NetComponents	https://www.netcomponents.com/
Chip1Stop	www.chip1stop.com

8. Do you support export? What are your main markets?

Worldwide export is supported, with complete customs declaration, clearance, and compliance documentation.

7. Customization Services

1. Parameter & package customization

Custom voltage, current, on-resistance, and package specifications are supported based on the customer's circuit conditions and equipment needs, with one-on-one technical solutions.

2. OEM/ODM and board-level cooperation

PCB board pairing, device customization, and joint solution development are supported — in-depth business discussions are welcome.



8. Technical Resources, Compliance Documents & Tools

1. Datasheet and manual downloads

Datasheets for specific models can be downloaded directly from the product detail pages on the official website; for bulk documentation, contact customer service for a packaged delivery.

2. EDA resources (SPICE models, land patterns)

SPICE MODEL	https://www.gofordsemi.com/en/support/105.html
LAND PATTERN	https://www.gofordsemi.com/en/support/45.html
TO-263	https://www.gofordsemi.com/Upload/2024/05/4e511f41ae194556919fa553662d24ea.pdf
TO-247	https://www.gofordsemi.com/Upload/2024/05/9183d3db015c4bc683f45cb1f99e8c42.pdf
TO-251	https://www.gofordsemi.com/Upload/2024/05/274ac167c0254d99adb2c3d6e2f08de9.pdf
TO-220F	https://www.gofordsemi.com/Upload/2024/05/40c2454d5d2c42838554eb2e1c87f421.pdf
DFN8X8-4L	https://www.gofordsemi.com/Upload/2024/05/46496d191cf348af8c61fddb2c2705d2.pdf
TO-252	https://www.gofordsemi.com/Upload/2026/04/f8e4db41a51e4a239d65c314fff35394.pdf
TO-220	https://www.gofordsemi.com/Upload/2024/05/e37c873319ba4d5b8f9a8d046a019464.pdf
TO-252-4	https://www.gofordsemi.com/Upload/2024/05/72837ada614c4ff296f6d2a4a6ef8b3f.pdf
TSSOP-8	https://www.gofordsemi.com/Upload/2024/05/ae9caf417a2c48fe9addaf09474fa1fa.pdf
SOT-23	https://www.gofordsemi.com/Upload/2024/05/b3ba51300d44424d92db69f566a91b8c.pdf
SOT-223	https://www.gofordsemi.com/Upload/2024/05/943cb829cb404619aed72f4d3c40301c.pdf
SOT-23-3L	https://www.gofordsemi.com/Upload/2024/05/9e4db1fdd2c648fd9d1b69abf3655386.pdf
SOT-23-6L	https://www.gofordsemi.com/Upload/2024/05/53152b0d05a54380b974d17ba9ed011b.pdf
SOT-89	https://www.gofordsemi.com/Upload/2024/05/220e48a7bf3e4142aa25480ac883336b.pdf
DFN5X6-8L	https://www.gofordsemi.com/Upload/2026/04/e9e5d36f632f4a82ba8f92383b18859b.pdf
SOP-8	https://www.gofordsemi.com/Upload/2024/05/cb3b55a69832475087bc8c6d748b1845.pdf
TOLL-8L	https://www.gofordsemi.com/Upload/2024/05/84854d20762b40678ff2022f7be6a175.pdf
DFN3X3-8L	https://www.gofordsemi.com/Upload/2024/05/1ee78bc7606a45b8ac0f9df2b2241060.pdf
DFN2X2-6L	https://www.gofordsemi.com/Upload/2024/05/fcba46ad996d40d3bc4dde5de1f947ec.pdf

3. Environmental compliance documents (HF, RoHS, REACH)

HF Report	https://www.gofordsemi.com/Upload/2026/05/f86fa19df69d462b9e272d59c2186ac8.pdf
HF Report	https://www.gofordsemi.com/Upload/2025/05/d5d38ebb2aa64a77bbe674e757e47c32.pdf
RoHS Report	https://www.gofordsemi.com/Upload/2026/05/5e67c8d64b9c48e88122e6e2fb0887c1.pdf
RoHS Report	https://www.gofordsemi.com/Upload/2026/05/c9c7afaa18884455be1a3f52b1018e39.pdf
REACH Report	https://www.gofordsemi.com/Upload/2026/05/084085b4b8e04ad5a77dd0d17bd17255.pdf
REACH Report	https://www.gofordsemi.com/Upload/2026/05/2b917e0302964fff8928e98413a4173c.pdf

4. Product material composition lists

TOLL-8L	https://www.gofordsemi.com/Upload/2024/06/b4bb6f4123d6473c8f4408812ee44144.pdf
TO-263	https://www.gofordsemi.com/Upload/2024/06/bf72fba410f74c178a01c4e4fda0e4b3.pdf
TO-252	https://www.gofordsemi.com/Upload/2024/06/15f3f6ed0bd34108b0bf38960ab73981.pdf
TO-251	https://www.gofordsemi.com/Upload/2024/06/4651ef549b794dfdb7bf7a77025974b9.pdf
TO-247	https://www.gofordsemi.com/Upload/2024/06/432569d929fb443aa0af98cd27661102.pdf
TO-220F	https://www.gofordsemi.com/Upload/2024/06/f8524e46a9b745238eea2d09e914de6b.pdf
TO-220	https://www.gofordsemi.com/Upload/2024/06/8b7e0d0390594ff2bdc1b5d8b2af831e.pdf
TO-92	https://www.gofordsemi.com/Upload/2024/06/4c426183c9c34a4581c7d457ef3e89c3.pdf
SOT-223	https://www.gofordsemi.com/Upload/2024/06/f703920d5a03498d92df47d3f5c53ad0.pdf
SOT-89	https://www.gofordsemi.com/Upload/2024/06/f674d75143bf4d47beb964e6f4476af1.pdf
SOT-23-6L	https://www.gofordsemi.com/Upload/2024/06/b3a3b53918964f35bde5eed739a2f58.pdf
SOT-23-3L	https://www.gofordsemi.com/Upload/2024/06/9638078aa61740fead550be54b1d82d0.pdf
SOT-23	https://www.gofordsemi.com/Upload/2024/06/a764910458c443bea52f8d525c3a4795.pdf
SOP-8	https://www.gofordsemi.com/Upload/2024/06/a3c39ff3037345b18c58761b04fee427.pdf
DFN8X8-4L	https://www.gofordsemi.com/Upload/2024/06/9743be21c0544f4e9f4fb821bec613c4.pdf
DFN5X6-8L	https://www.gofordsemi.com/Upload/2024/06/b70dc24a99da41748c595cf94e1365ad.pdf
DFN3X3-8L	https://www.gofordsemi.com/Upload/2024/06/7ad6b40ff695480fa3f6abfb9a6b7b6a.pdf
DFN2X2-6L	https://www.gofordsemi.com/Upload/2024/06/da0067013249410ab02650ee4336f299.pdf

5. Product weight & packing information

Weight & Packing	https://www.gofordsemi.com/Upload/2024/11/46f71afbd2d44a7185334f04a96a7ca6.pdf
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6. Product test / burn-in reports

MOSFET SMD Series	https://www.gofordsemi.com/Upload/2024/05/6c42418910f64d1ba03437408f322da4.pdf
MOSFET THT Series	https://www.gofordsemi.com/Upload/2024/05/a48fa7fb5afe4701b8d5e41e5a7a2941.pdf
TSCA Compliance Statement	https://www.gofordsemi.com/Upload/2024/05/4631282e00204d73b3006c48cf0290fe.pdf
POPs Compliance Statement	https://www.gofordsemi.com/Upload/2025/03/2a5aaded1dde49a8b1da9c495fb6b941.pdf

PFAS Compliance Statement	https://www.gofordsemi.com/Upload/2024/11/f07c639be12341a8920a7341da39951e.pdf
California Proposition 65	https://www.gofordsemi.com/Upload/2024/05/8524be34e5c9479585c62c3b6e27f112.pdf
EU RoHS Certificate	https://www.gofordsemi.com/Upload/2024/07/363d584919264c60967711fe7728277a.pdf
AMRT	https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.gofordsemi.com%2FUpload%2F2026%2F06%2F164f6354e9934f4f8a31661afecf9d96.xlsx
EMRT	https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.gofordsemi.com%2FUpload%2F2026%2F06%2F0f086fbd519467580d60fbc7d3dfca4.xlsx
CMRT	https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.gofordsemi.com%2FUpload%2F2026%2F06%2F35ff376cf93647cb895ae56f5d1588c6.xlsx
Legal Disclaimer	https://www.gofordsemi.com/Upload/2025/07/3f2b5ec3b141451486f6d8b826b0c104.pdf
ISO 9000	https://www.gofordsemi.com/Upload/2025/12/310a46b4abb84cf283766f5fd28dbba1.pdf

7. Product packaging documents

DFN2X2-6L	https://www.gofordsemi.com/Upload/2024/05/60cbbc19c6f44fa2a41d438ddea520cd.pdf
DFN3X3-8L	https://www.gofordsemi.com/Upload/2025/07/b407061374e34ccab868cc4341049cd6.pdf
DFN5X6-8L	https://www.gofordsemi.com/Upload/2025/10/f982f53606d3400cb94578d3ea35462a.pdf
DFN8X8-4L	https://www.gofordsemi.com/Upload/2025/11/9d840bd4566847ebbca6be30bbe033b3.pdf
SOP-8	https://www.gofordsemi.com/Upload/2025/03/e3f1b184f60445c4adf97c51d5ab3f0d.pdf
SOT-23	https://www.gofordsemi.com/Upload/2024/05/e9d7581c1da14db8a9c2a2074a1d0dfd.pdf
SOT-23-3L	https://www.gofordsemi.com/Upload/2025/03/bb0d2dc5436a4370843704cc4f573aed.pdf
SOT-23-6L	https://www.gofordsemi.com/Upload/2024/05/6278dd7c73cc4980862eaf1d24d01f5d.pdf
SOT-89	https://www.gofordsemi.com/Upload/2024/05/c5e1a82bae184a0691f7496c22fa55b0.pdf
SOT-223	https://www.gofordsemi.com/Upload/2024/05/a761384789284f548374bb6f8e1f26b5.pdf
TO-220	https://www.gofordsemi.com/Upload/2025/03/c5a414a33d044b6f9e1046c431f9f5ef.pdf
TO-220F	https://www.gofordsemi.com/Upload/2025/03/c44ef59c0c47439f95fa6f5bb97e3099.pdf
TO-247	https://www.gofordsemi.com/Upload/2025/09/aef069958821472e90106d5a81fa477b.pdf
TO-251	https://www.gofordsemi.com/Upload/2024/05/25ebe611182a48fba1c30cbb706eac3b.pdf
TO-252	https://www.gofordsemi.com/Upload/2025/03/48cc3c8409ee40de9727a6858d3d8093.pdf
TO-252-4	https://www.gofordsemi.com/Upload/2025/10/9c5b58c11848400bb262dddeb0290ba8.pdf
TO-263	https://www.gofordsemi.com/Upload/2025/11/85fc1a39d9d14d1caadd2d2ea9cec529.pdf
TOLL-8L	https://www.gofordsemi.com/Upload/2025/11/b7cc543b6bc84caf8ecc2090f1c2b00e.pdf
TOLT	https://www.gofordsemi.com/Upload/2025/11/28cf52c7cbc34f31804de69a1d7f1f6a.pdf
PQFN5X6 DSC	https://www.gofordsemi.com/Upload/2025/11/c97ea513905742af9e65a590da3d675d.pdf

sTOLL	https://www.gofordsemi.com/Upload/2025/10/6c09329f38104e08a39b99dcd1254de8.pdf
Product SPQ List	https://www.gofordsemi.com/Upload/2024/08/eb8ba6e0c29743d6a6e2cdf2fc025ac0.pdf
Soldering Profile	https://www.gofordsemi.com/Upload/2024/06/94cdd6e2eae6433b95dc081405a7ae05.pdf

8. Application notes and reference circuits

General materials can be downloaded from the "Technical Resources" section of the official website; for special solutions, contact our technical engineers.

9. What if a link fails to open?

First clear the browser cache and try another browser; if the link still cannot be accessed, provide the specific model number and we will send the files manually.

10. Replacement for old / discontinued models

Provide the complete old model name and we will match a compatible replacement, accompanied by parameter comparison documents.

9. Business, Exhibitions & Partnerships

1. Company qualifications

National High-Tech Enterprise, Provincial SRDI (Specialized, Refined, Distinctive, Innovative) Enterprise, and ISO 9000 system certified.

2. Contact sales representatives / distributors

Contact page	https://www.gofordsemi.com/en/Contact/27.html
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3. Customer service & technical support contacts

Online feedback	https://www.gofordsemi.com/en/feedback/113.html
Business contact	https://www.gofordsemi.com/en/Contact/27.html
Overseas customers	English support available

4. Company address, showroom, and factories

See the "About Us" section on the official website for detailed addresses; on-site visits can be arranged by appointment.

5. Exhibition information

We regularly participate in electronica (Munich, Germany); other exhibitions are mostly attended by local distributors or as joint exhibitions.

Exhibition details	https://www.gofordsemi.com/en/newsdetails/26/121.html
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6. After-sales warranty

All products comply with JESD22 industry standards, with consistent quality control and formal warranty services; after-sales issues are handled with fast response.

10. Quick Reference Links

Common links

P-Channel MOS selection table	https://www.gofordsemi.com/en/product.html
Distributors / sales representatives	https://www.gofordsemi.com/en/Contact/27.html
SPICE models	https://www.gofordsemi.com/en/support/105.html
Land pattern files	https://www.gofordsemi.com/en/support/45.html
Material composition lists	https://www.gofordsemi.com/en/quality/21.html

Technical articles

BMS Safety Starts with the Right MOSFET Selection	https://www.gofordsemi.com/en/newsdetails/28/115.html
N-Channel vs P-Channel MOSFETs in BMS: Which One Belongs Where?	https://www.gofordsemi.com/en/newsdetails/28/119.html
MOSFET Thermal Design and Reliability in BMS Systems	https://www.gofordsemi.com/en/newsdetails/28/113.html
Goford 150V P-MOSFETs: Ultra-Low RDS(on) for High-Power Apps	https://www.gofordsemi.com/en/newsdetails/28/87.html
Ultra-Low Resistance MOSFETs for Advanced Power Systems	https://www.gofordsemi.com/en/newsdetails/28/92.html
Enhance Power Efficiency: P-Channel Ultra-Low Rds(on) MOSFETs	https://www.gofordsemi.com/en/newsdetails/28/100.html
Tired of Thermal Failures? GOFORD MOSFETs Revolutionize E-Bike Design	https://www.gofordsemi.com/en/newsdetails/28/101.html
GOFORD's 40V TOLL & DFN MOSFETs Redefine Drone Performance Benchmarks	https://www.gofordsemi.com/en/newsdetails/28/107.html

200V TOLT MOSFET: Low Rds(on) 8mΩ, Super Compact	https://www.gofordsemi.com/en/newsdetails/28/81.html
80V N-Channel TOLL-8L MOSFET: High Power, Low Rdson 0.85mΩ	https://www.gofordsemi.com/en/newsdetails/28/78.html
Introduction to TOLT	https://www.gofordsemi.com/Upload/2024/09/6a4ed427051540c398fd72ed7a1d4e8d.pdf
Introduction to Package TOLL-8L	https://www.gofordsemi.com/Upload/2024/06/db28ddf402e54dc9ba718a2983628102.pdf
GOFORD P Channel Power MOSFET Overview	https://www.gofordsemi.com/Upload/2024/11/3bc8801b16fd47a7b825739114df631f.pdf
SGT MOSFET (Low Rds(on) 1.8mΩ, Fast Switching) in DFN5*6-8L	https://www.gofordsemi.com/en/newsdetails/28/66.html
Reliability Test	https://www.gofordsemi.com/en/newsdetails/28/17.html
How to Choose the Alternatives	https://www.gofordsemi.com/Upload/2024/07/e443e3977b7449e19f557c87871dbdf3.pdf
30V Ultra Low Rds(on) with ESD Capability	https://www.gofordsemi.com/en/newsdetails/28/56.html
Industrial Power Supply Solution	https://www.gofordsemi.com/en/newsdetails/28/57.html
GOFORD MOSFET in PD Application - MCDODO 30W Analysis	https://www.gofordsemi.com/en/newsdetails/28/8.html