

THE 6.5 kV SiC MOSFET

RUGGED · RELIABLE · CUSTOMIZABLE

Next in the high-voltage roadmap — a large-die 6.5 kV MOSFET. Proven on the curve: robust blocking with large current capability. Rated 6.5 kV; 8.4 kV demonstrated.

Evaluation now (custom package & bare die) · QDPAK late Q4 2026 · Datasheet Dec 2026

QDPAK · CUSTOM DISCRETE · BARE DIE

Representative curves · preliminary data

6.5 kV · LARGE-DIE MOSFET · EVALUATION SAMPLE

8.4 kV

BLOCKING (DEMO.)

90 mΩ

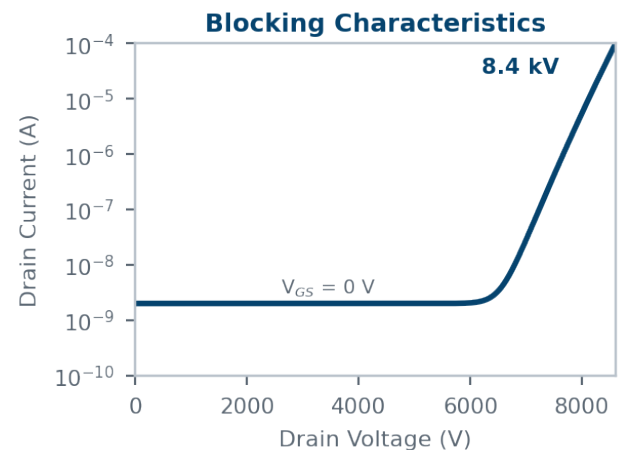
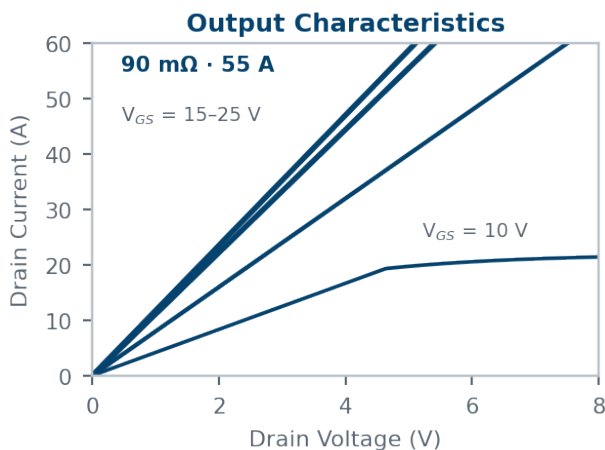
ON-RESISTANCE (typ.)

55 A

DRAIN CURRENT

8 × 8 mm

DIE SIZE



- Rugged, high-current large-die 6.5 kV SiC MOSFET
- Robust blocking — 8.4 kV demonstrated (rated 6.5 kV)
- Low leakage in the blocking state
- Custom on-resistance, current & package on request

APPLICATIONS

Rail traction (main converter) · HVDC / SST (main) · MW EV charging (main) · Defense / Maritime MV · Fusion / Pulsed Power (Ignatron replacement)

UPCOMING PRODUCTION FAMILY · 6.5 kV

70 mΩ · 600 mΩ (+ matched diode) — QDPAK / TOLT / bare die · datasheet & samples Feb–Mar 2027

15 Ω small die (+ diode) — TO-263-7L · datasheet & samples Feb–Mar 2027

ROADMAP **3.3 kV NOW** · **6.5 kV NEXT** · **10 kV+ COMING SOON**

Rev01 · September 2026

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Request evaluation samples — share your target spec

Evaluation sample — sampling now to US customers. Preliminary data — subject to change. Not a qualified-product datasheet.