SemiQ®

Powering the SiC evolution™

Delivering superior SiC solutions

for ultra-efficient, high-performance, and high-voltage applications

AI Data Center

Automotive

Energy Storage

EV Charging

Medical

Solar



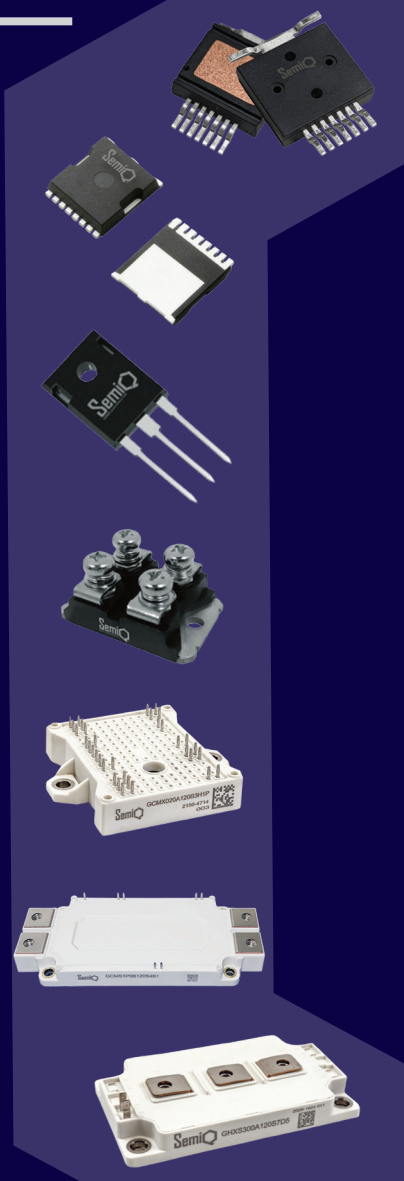
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SemiQ | Powering the SiC evolution™

SemiQ specializes in providing high-quality, efficient standard, and custom Silicon Carbide (SiC) Power Semiconductors for high-voltage applications. Our product portfolio includes MOSFETs and diodes, available in discrete, module and bare die that combine high-performance with industry-leading reliability.



AI Data Center

- Low switching losses
- Low junction to case thermal resistance
- Very rugged and easy mounting
- Direct mounting to heatsink (isolated package)
- Lower QRR at high temperature

EV-Charging

- High Efficiency
- Reduced Operational Temperatures
- Long-term Reliability
- Reduced Design Complexity versus Silicon
- Over 54M Hours of HTRB/H3TRB Testing
- Unidirectional and Bi-directional Conversion

Automotive

- High Efficiency
- Enhanced Reliability
- Wide Range of Voltages and Currents
- Reduced Power Dissipation
- Temperature Tolerance
- Contribution to Sustainability

Medical

- High Efficiency
- Reliable Performance
- Precision and Accuracy
- Wide Range Of Options
- Heat Management
- Compact and Lightweight
- High-Temperature Tolerance Advanced Technology

Energy Storage

- High Efficiency
- Fast Switching Speeds
- High Power Density
- Temperature Handling
- Reduced Cooling Requirements
- Reliability and Longevity
- Voltage Rating Options

Solar

- High Efficiency as high as 98% with SiC
- Reduced Heat Loss
- More Compact Designs
- Better Thermal Stability
- Over 54M Hours of HTRB/H3TRB Testing

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