



# About SemiQ

## SemiQ is a designer and manufacturer of Silicon Carbide Power Semiconductors.

SemiQ Inc. is headquartered in Lake Forest, California. We design and manufacture Silicon Carbide Power Semiconductors including: Diodes, MOSFETs, Modules, Bare Die, Finished Wafers, and Custom Epi.

We design our own MOSFET and Diode chips at the Lake Forest location. These device designs are then fabricated in our American wafer foundry or our European foundry, using our own proprietary process flows, some of which are patented.

Our headquarters includes our device characterization Lab, our applications engineering lab as well as our extensive reliability test center. We use customized reliability test equipment, which allows us to proactively improve the ruggedness and quality of our products.

**Reliability is key.** Our SiC Diodes have undergone more than 20 million device hours of high temperature accelerated stress testing.

**We deliver industry-leading performance of the highest quality and reliability with a fully redundant supply chain.**



## We have a broad product offering fitting many end applications and provide global support from design through production.

Our Lake Forest site also houses our clean room, wafer probe, wafer saw area, Epi reactor and wafer metrology including defect density, wafer shape, wafer doping concentration, and wafer thickness. Our custom epi is used on select products to give us an additional competitive advantage.

SemiQ's ever expanding product portfolio includes SiC Diode chips from 6A to 50A and from 650V to 1700V. Our new SiC MOSFET line starts at 1200V with chips at 20, 40, and 80 mOhm. Module packaging of our chips extends these ratings up to 600A, and allows for half bridge and full bridge configurations.

SemiQ products are used in some of the most demanding applications including:  
**EV Charging Stations, Server Power Supplies, PFC, Telecom/Datacom Power Supplies, 5G Infrastructure, Pulse Generators, Appliances, HVAC, Solar, and Medical Power Supplies**

SemiQ is a private, partially employee owned Silicon Carbide semiconductor company led by passionate industry veterans devoted to developing the most rugged, reliable, and cost-effective power semiconductors possible.

SemiQ has offices and representation worldwide to work closely with you to define the best solution for your needs. **Contact [sales@SemiQ.com](mailto:sales@SemiQ.com) for samples and product demonstrations.**

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