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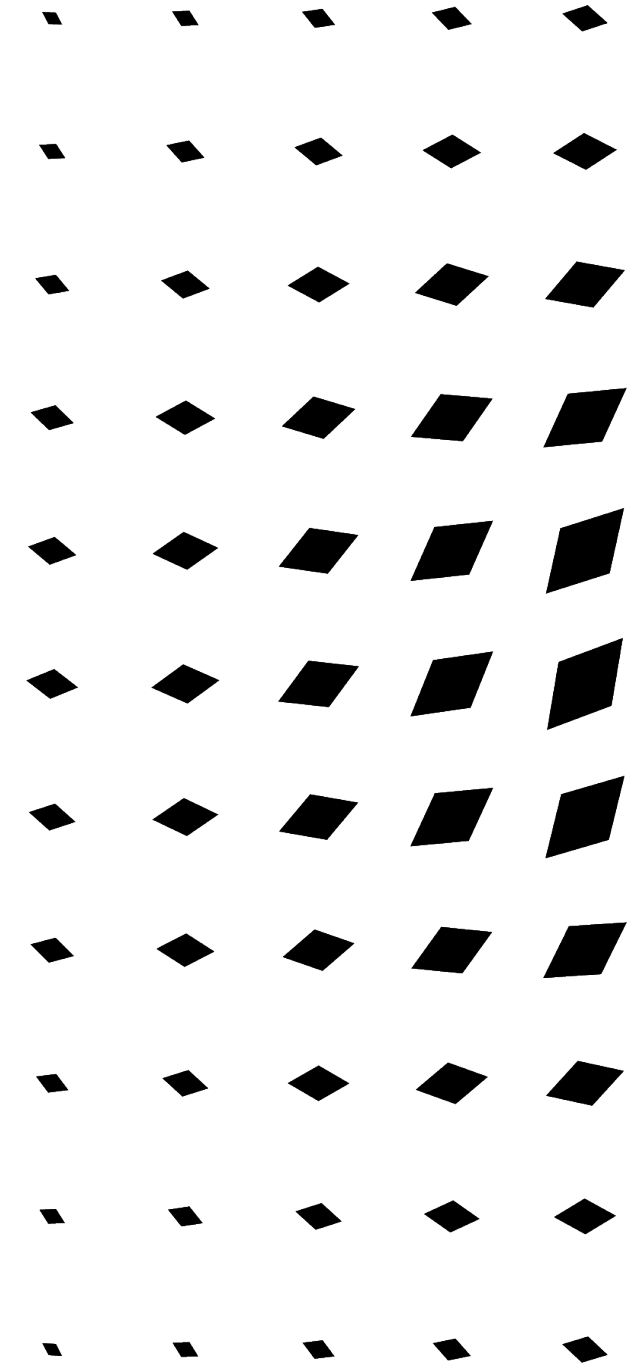
Changes for the Better

Why Choose
Mitsubishi Electric's SiC MOSFET Chips



MITSUBISHI ELECTRIC CORPORATION

Why Choose Mitsubishi Electric's SiC MOSFET Chips

- In addition to outstanding performance, Mitsubishi Electric’s SiC MOSFET chips offer comprehensive value through reliability qualification, stable supply, rigorous quality management, and expert technical support.
- They help customers minimize design risks, enhance development efficiency, achieve high-quality product designs, and accelerate time-to-market.

Major Category	Subcategory	Customer Benefit
Fundamental Performance		Contributes to highly efficient system design through low losses and a wide operating temperature range.
Quality Management		Supports consistent product quality through integrated quality management from development through mass production.
Manufacturing Track Record		Reduces product development risk through decades of power semiconductor expertise and extensive field-proven application experience.
Reliability	Ruggedness	Ensures stable operation even in high-speed switching environments, contributing to greater system design flexibility.
	Consistency	Minimizes variations in key characteristics caused by temperature fluctuations, enabling stable performance across a wide range of operating environments.
	Testing	Contributes to reducing customer reliability verification efforts by conducting tests aligned with AEC-Q101 qualification requirements and providing the results.
Mass Production Capability	Supply Stability	Reduces supply chain risks through a multi-site manufacturing structure that ensures a stable supply
	Production Capacity	Reduces supply chain risks through a multi-site manufacturing structure that ensures a stable supply
Technical support	Simulator	Provides SPICE models to improve design accuracy and shorten evaluation periods.
	Technical inquiry support	Provides comprehensive technical support, including design assistance, evaluation support, and failure analysis, helping accelerate time-to-market.

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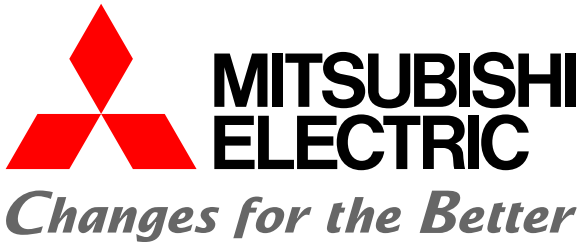
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