



New Product Announcement

Mouser Electronics Now Stocking STMicroelectronics MDmesh M6 High-Efficiency Super-Junction MOSFETs

January 30, 2019 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [MDmesh™ M6](#) series super-junction transistors from [STMicroelectronics](#) (ST). Designed for high efficiency in medium-power resonant and hard-switching converter topologies, the MDmesh M6 series MOSFETs enable increased power density in equipment such as battery chargers, power adapters, PC power supplies, [LED](#) drivers, telecom and server [power supplies](#), and [solar](#) micro-inverters.

The [ST MDmesh M6](#) MOSFETs, available from Mouser Electronics, deliver high-efficiency performance for increased power density. The series offers gate charges (Qg) as low as 18 nanocoulombs (nC), with an optimized capacitance profile to target high efficiency on new topologies in power conversion applications. ST's M6 super-junction technology helps reduce RDS(ON) to as little as 0.036 Ohms, enabling additional efficiency gains.

Offering current ratings from 8 A to 72 A and breakdown voltages ranging from 600 V to 700 V, the MOSFETs' threshold voltage is optimized for soft switching, making them ideal for LLC resonant converters and boost-PFC converters. The ST MDmesh M6 series MOSFETs are available in a wide range of packaging options, including a TO-Leadless (TO-LL) package solution that enables efficient thermal management in a 30-percent smaller footprint compared to other packages.

To learn more, visit www.mouser.com/stmicroelectronics-m6-mosfets.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

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