

New Product Announcement

TI's LMG341xR050 GaN Power Stage, Available at Mouser, Enables High-Density Power Conversion Designs

March 26, 2020 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [LMG341xR050](#) gallium nitride (GaN) power stage from [Texas Instruments](#) (TI). With an integrated gate driver and robust protection features, the 600-V, 50-milliohm device allows designers to achieve new levels of efficiency in their power conversion systems, including in high-density [industrial](#) and consumer [power supplies](#), high-voltage battery chargers, [solar](#) inverters, and multi-level converters.

The [TI LMG341xR050](#) GaN power stage, available from Mouser Electronics, provides multiple advantages over silicon MOSFETs, including ultra-low input and output capacitance, low switch-node ringing to reduce EMI, and zero reverse recovery to reduce switching losses by up to 80 percent. The device's integrated gate driver supports 100 V/ns switching with near-zero V_{ds} ringing, while trimmed gate bias voltage ensures reliable switching by compensating for threshold variations. The power stage's unique set of features allows designers to optimize the performance and reliability of any power supply, including dense and efficient topologies such as totem-pole power factor correction (PFC) structures.

The LMG341xR050 GaN power stage includes robust protection features that require no external protection components. The device offers overtemperature protection and transient overvoltage immunity, as well as under voltage lock out (UVLO) protection on all supply rails. The LMG341xR050 features overcurrent protection with less than 100 ns response, in addition to slew rate immunity of greater than 150 V/ns.

To learn more, visit <https://www.mouser.com/new/texas-instruments/ti-lmg341xr050-gan-power-stage/>.

As an authorized TI distributor, Mouser Electronics offers the broadest portfolio of the newest Texas Instruments semiconductor solutions, adding new products every day. Mouser is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

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 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 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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