



New Product Announcement

ON Semiconductor's STK984-190-E Power Integrated Module for Driving BLDC Motors Now at Mouser

November 21, 2016 – [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 [STK984-190-E](#) Power Integrated Module (PIM) from [ON Semiconductor](#). Optimized for driving three-phase brushless DC (BLDC) [motors](#) in [automotive](#) applications, the module's seven MOSFETs are mounted onto a direct bonded copper (DBC) substrate, resulting in a compact module with excellent thermal performance taking up only half of the board space used by an equivalent discrete solution.

[ON Semiconductor's STK984-190-E](#) Power Integrated Module, available from Mouser Electronics, contains six AEC-Q101 qualified 40V, 30A MOSFETs configured as a three-phase bridge with an additional 40V, 30A high-side reverse battery protection [MOSFET](#). The module's DBC substrate reduces thermal resistance, which lowers the operating temperature of the MOSFETs and decreases power losses while increasing reliability due to a limited change in temperature during thermal cycling. Reliability is also improved by the isolation provided by the DBC substrate.

Designers can combine the STK984-190-E module with motor controllers to build high-efficiency BLDC solutions with best-in-class thermal performance, built-in diagnostics, and an ultra-small PCB that saves critical size and weight. The module is supported by the [STK984-190-EGEVB](#) evaluation board, and is suitable for use in 12V automotive electric motor drive applications with power ratings up to 300W, such as electric pumps, fans, and windscreen wipers.

To learn more, visit <http://www.mouser.com/new/onsemiconductor/onsemi-stk984-190-e/>.

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About Mouser Electronics

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About ON Semiconductor

ON Semiconductor is a premier supplier of high-performance, energy-efficient silicon solutions for green electronics. ON Semiconductor's broad portfolio of power and signal management, logic, discrete and custom devices helps customers efficiently solve their design challenges in automotive, communications, computing, consumer, industrial, LED lighting, medical, military/aerospace and power applications.

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