Silicon Labs and Wolfspeed Partner to Deliver High-Performance Power Module Solution

-- New isolated gate driver board delivers compact, high-performance design for power modules --

AUSTIN, Texas – February 17, 2021 – Silicon Labs (NASDAQ: SLAB), a leading provider of silicon, software and solutions for a smarter, more connected world, introduced the new Si823Hx Gate Driver Board, an all-in-one isolation solution perfectly suited for the recently launched Wolfspeed WolfPACK™ power module. Wolfspeed power modules are used across numerous power applications, including EV chargers and motor drives in the industrial and automotive markets. Featuring the Si823Hx isolated gate driver and Si88xx digital isolator with integrated dc-dc converter, the board delivers excellent performance in a compact and cost-effective design, optimized for a wide range of modules.

“Power electronics engineers face many challenges when designing high-power systems, from space constraints to safety requirements,” said Brian Mirkin, vice president and general manager of Power Products at Silicon Labs. “The Silicon Labs Si823Hx gate driver board is an efficient, high-performance solution designed to simplify the development of systems using power modules.”

Silicon Labs’ isolated gate driver technology is leveraged for a variety of power applications including high-power converters and inverters, motor and traction drives and electric vehicle (EV) chargers. The Si823Hx gate driver board delivers superior performance to efficiently drive and protect power modules employing any switch technology, including advanced Silicon Carbide (SiC) based modules, used in the most demanding high-power applications.

The two-channel Si823Hx isolated gate driver delivers unmatched value with built-in dead-time control and overlap protection in a small package, enabling it to drive a half-bridge topology safely and with minimal design effort. The highly integrated Si88xx device not only communicates power module temperature to the controller, but also generates all the power supplies for the board, further reducing costs and simplifying the design.

A complete suite of design resources, developed in partnership with Wolfspeed, are available to jump-start your Wolfspeed WolfPACK™ evaluation and development including a reference design, evaluation test fixture, and system test report. For more information about the Si823Hx gate driver board, visit silabs.com/isolation/wolfspeed-partner-designs.

About Silicon Labs

Silicon Labs (NASDAQ: SLAB) is a leading provider of silicon, software and solutions for a smarter, more connected world. Our award-winning technologies are shaping the future of the Internet of Things, Internet infrastructure, industrial automation, consumer and automotive markets. Our world-class engineering team creates products focused on performance, energy savings, connectivity and simplicity. silabs.com

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