power integrations

NEWS RELEASE

Compact, Efficient SCALE-iDriver™ IC Family from Power Integrations Supports 1700 V IGBTs

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New gate driver IC targets applications from 400-690 VAC, including three-level topology inverters

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq:**POWI**), the leader in IGBT and MOSFET driver technology for medium- and high-voltage inverter applications, today announced an expansion of its SCALE-iDriver™ family of galvanically isolated single-channel gate driver ICs. The new devices support IGBT blocking voltages up to 1700 V, which are generally used in 400 VAC and 690 VAC line applications. They are also ideal for the latest three-level topology photovoltaic inverters and for photovoltaic arrays leveraging the new 1500 V DC bus standard. The expanded 1700 V SCALE-iDriver family allows OEMs to use the same highly integrated, safe and reliable driver technology across a range of solutions.

This Smart News Release features multimedia. View the full release here:
http://www.businesswire.com/news/home/20170516006442/en/

Compact, efficient SCALE-iDriver™ IC family from Power Integrations supports 1700 V IGBTs (Photo: Business Wire)

1700 V SCALE-iDriver ICs, optimized for driving both IGBTs and MOSFETs, combine Power Integrations' pioneering **FluxLink**™ magneto-inductive bi-directional communications technology with its **SCALE**™ power device driver technology. FluxLink eliminates the need for unreliable opto-electronics and the associated compensation circuitry, thereby enhancing operational stability while reducing system complexity, and SCALE technology incorporates all key gate driver functions into an ASIC, reducing size and improving reliability while simplifying design. Innovative eSOP package features greater than 9.5 mm of creepage and a CTI of 600, ensuring substantial operating voltage margin and high system reliability.

1700 V SCALE-iDriver ICs can be operated from -40 °C to +125 °C and at frequencies of up to 75 kHz. The family meets the upcoming requirements of IEC 60747-17 and VDE 0884-17. Devices feature desaturation (short-circuit) protection with Advanced Soft Shut Down (ASSD) functionality, providing reliable and easy-to-implement protection to the power switch.

Comments Michael Hornkamp, senior director of marketing for high-power products at Power Integrations: "With the launch of our new **1700 V SCALE-iDriver** ICs, manufacturers can use the same platform across all applications – from 400 VAC to 690 VAC line – simplifying their design process. FluxLink technology supercedes commonly used but problematic optocouplers and SCALE technology ensures compact, robust and reliable designs that are simple and quick to create."

1700 V SCALE-iDriver ICs deliver a gate current of up to 8 A and support systems of over 110 kW without an external booster, or up to 30 A gate current and over 400 kW with an external booster. 1700 V SCALE-iDriver ICs suit applications in industrial drives, power supplies/UPS, photovoltaic inverters of all sizes, industrial HVAC, EV charging and traction equipment including commercial EVs. SID1183K devices are available now priced at $3.19 in 10,000-piece quantities. Technical support for SCALE-iDriver ICs is available from the Power Integrations website at: **https://www.power.com/products/1700-v-scale-idriver**.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company's products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit **www.power.com**.

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