CONCEPT extends high voltage IGBT gate driver core family with new, versatile, space-saving 4.5kV and 6.5kV products

New high voltage family provides choice for traction and other high voltage designers

BIEL, SWITZERLAND – May 2014 - IGBT gate driver manufacturer CT-Concept Technologie GmbH, a Power Integrations company, has announced the availability of its 1SC0450V single driver core for IGBT modules with blocking voltages of 4.5kV and 6.5kV. The new product is very compact and enables IGBTs to be paralleled using only one driver core, which further reduces system size and increases reliability.

A new member of CONCEPT’s high voltage gate driver core family, the 1SC0450V is based on the company’s SCALE™-2 chip set and a partial discharge free, low coupling capacitance, high voltage DC/DC transformer. An advanced transformer design allows test voltages up to 10.4kV\textsubscript{RMS} and a partial discharge extinction voltage of 7800V\textsubscript{peak}. The driver core measures just 60mm by 90mm long with a height by the DC/DC transformer of only 27.50mm.

Explains Michael Hornkamp, CONCEPT’s Director Regional Marketing and System Engineering: “Our high voltage gate driver core family - which also includes the 2SC0535T 3.3kV and 2SC0635T 4.5kV dual gate driver cores - reduces component count, therefore products are compact and very reliable.” CONCEPT’s 1SC0450V gate driver cores are suitable to drive all 4.5kV and 6.5kV IGBT modules currently available on the market. Target markets include traction and other high voltage applications.

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About CT-Concept Technologie GmbH
CT-Concept Technologie GmbH is the leading supplier of IGBT drivers for mid- to high-power applications, such as industrial drives, renewable energy, traction and automotive equipment. With its SCALE-2™ chipset, CONCEPT has delivered a next-generation technology platform for scalable IGBT and power MOSFET gate drivers featuring significant advances in dynamic performance, accuracy, functionality, flexibility and time-to-market. For more information, please visit www.IGBT-Driver.com.

About Power Integrations
Power Integrations is the leading supplier of high-voltage integrated circuits used in energy-efficient power conversion. The company's innovative technology enables compact, energy-efficient power supplies in a wide range of electronic products, in AC-DC, DC-DC, and LED lighting applications. Since its introduction in 1998, Power Integrations' EcoSmart™ energy-efficiency technology has saved an estimated $5 billion of standby energy waste and prevented millions of tons of CO₂ emissions. The company's Green Room web site provides a wealth of information about "energy vampires" and the issue of standby energy waste, along with a comprehensive guide to energy-efficiency standards around the world. Reflecting the environmental benefits of EcoSmart technology, Power Integrations' stock is included in The Cleantech Index® and the NASDAQ® Clean Edge® Green Energy Index. For more information, please visit www.powerint.com.

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