

Market News

Infineon's Rugged TRENCHSTOP™ 5 S5 IGBTs Extends Operational Lifetime and Efficiency in PV & UPS Applications

Munich, Germany – November 12, 2015 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) continues to improve IGBT performance with the release of the new S5 (S for soft) family. It is based on the ultra-thin wafer TRENCHSTOP™ 5 IGBT. This family has been developed specifically for AC-DC energy conversion in industrial applications switching up to 40 kHz, typically to be found in Photovoltaic Inverters (PV) or Uninterruptible Power Supplies (UPS). The S5 device addresses manufacturers' requirements for system efficiency levels up to and beyond 98 percent for highest yields of energy from solar cell installations and reduced system costs. It delivers increased levels of robustness and quality to aid end customers in achieving up to 20 years of operational lifetime. Overall, the IGBT provides customers with improved efficiency, price competitiveness, and robustness.

The Discrete IGBT features improved switching behavior to reduce circuit complexity and ultimately overall system costs by eliminating the need of capacitors and Zener diodes. They are typically needed to gain the highest efficiency and robustness, but can be eliminated when using the TRENCHSTOP 5 S5. In addition, increased robustness and quality levels are further enhanced with a 25 percent increase in surge current handling capability, which gives customers increased confidence in the robustness of their designs. The newly introduced device has an industry leading low typical saturation voltage $V_{CE(sat)}$ of 1.60 V at 175 °C. Thus, high efficiency can be maintained even during high temperature operations.

Availability

The first wave of 30A, 40A, 50A and 75A current classes are available in the TO-247 3-pin package and are co-packed with the Rapid1 free-wheeling diode. Further information on TRENCHSTOP 5 S5 family is available at www.infineon.com/trenchstop5.

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