



Press Release

Infineon Introduces a New Class of IGBTs Offering Lowest Total Power Losses for Switching Frequencies from 50Hz to 20kHz

Munich, Germany – January 28, 2015 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today introduced a new class of low saturation voltage $V_{CE(sat)}$ IGBTs specifically optimized for low switching frequencies ranging from 50Hz to 20 kHz. These can typically be found in applications such as Uninterruptible Power Supply (UPS) as well as in inverters for photovoltaic and welding systems. The new L5 family is based on the TRENCHSTOP™ 5 thin wafer technology, with the intrinsically low conduction losses having been reduced further with additional optimization of the carrier profile.

With a typical $V_{CE(sat)}$ value at 25°C of 1.05V, new levels of efficiency can be reached – up to 0.1% efficiency improvement in a NPC 1 topology or up to 0.3% efficiency improvement in a NPC 2 topology when replacing predecessor TRENCHSTOP IGBTs with the L5 family. Coupled with the positive temperature coefficient of $V_{CE(sat)}$, high efficiency is maintained plus paralleling straightforward – an industry benchmark for IGBTs switching below 20kHz frequency. The TRENCHSTOP 5 technology base used for the new L5 family not only delivers unmatched low conduction losses, but total switching losses are as low as 1.6 mJ at 25°C. For these reasons the use of the newly introduced low $V_{CE(sat)}$ IGBT leads to higher efficiency, improved reliability and smaller dimensions of the systems in low switching frequency applications.

The new L5 IGBT family is released in a first wave using the industry standard TO-247 3pin package. Additionally, for applications requiring extended efficiency enhancement, Infineon also offers the L5 in the innovative TO-247 4pin Kelvin-Emitter package. When compared to the standard TO-247 3pin package, the TO-247 4pin package provides a further 20% reduction in switching losses. Thus the L5 in combination with the TO-247 4pin package provides the ultimate lowest

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conduction and switching losses and maintains Infineon's leading position in offering the High Power market highly innovative and differentiated products.

Availability

The new low $V_{CE(sat)}$ L5 family is available in 30A and 75A current classes as single IGBT and co-packed with Infineon's ultrafast Rapid 1 and Rapid 2 silicon diodes. The TO-247 4pin Kelvin-Emitter package will be available in 75A current class. Further information on the new L5 IGBTs from Infineon is available at www.infineon.com/Trenchstop5-L5

About Infineon

Infineon Technologies AG is a world leader in semiconductors. Infineon offers products and system solutions addressing three central challenges to modern society: energy efficiency, mobility, and security. In the 2014 fiscal year (ending September 30), the company reported sales of Euro 4.3 billion with about 29,800 employees worldwide. In January 2015, Infineon acquired US-based International Rectifier Corporation, a leading provider of power management technology, with revenues of USD 1.1 billion (fiscal year 2014 ending June 29) and approximately 4,200 employees.

Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

Further information is available at www.infineon.com

This press release is available online at www.infineon.com/press

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