



Press Release

OptiMOS™ 300 V Offers High Efficiency and New Design Possibilities in Hard Switching Applications

Munich, Germany – June 2, 2015 – Infineon Technologies (FSE: IFX / OTCQX: IFNYY) extends its medium voltage MOSFET portfolio with OptiMOS™ 300 V, setting a new standard in the Power MOSFET market. In doing so, the company confirms its position as market leader enabling energy efficient solutions in applications such as telecom systems, uninterruptible power supplies (UPS), motor control, industrial power supplies and DC/AC inverters.

The new OptiMOS 300 V helps system designers to increase power density and reduce cost with the highest level of reliability. Ultimately, for the end user, this translates into energy cost savings. For example, in hard switching applications such as AC/DC converters OptiMOS 300 V cuts energy losses by 50 percent. This allows for higher switching frequencies and, consequently, passive component and solution size reduction. Furthermore, OptiMOS 300 V can provide voltage spike headroom for better reliability, safety and ease of design in a 60 V telecom rectifier. The number of stages required in cascaded high voltage switch mode power supplies can also be reduced. Additionally, 110 V AC UPS can now be realized with OptiMOS 300 V.

“With 300 V blocking capability, Infineon extends the benchmark OptiMOS technology into a so far non-mainstream voltage class to support evolving applications such as multilevel converters,” says Richard Kuncic, Vice President & General Manager Business Line DC/DC at Infineon Technologies AG. “Due to superior performance of OptiMOS technology and the wide application spectrum, we expect this voltage class to become a new standard in the power MOSFET market.”

Incorporating fast diode technology, OptiMOS 300 V offers 70 percent lower reverse recovery charge Q_{rr} compared to the next best alternative device. This characteristic leads to smooth body diode behavior and minimizes voltage overshoot.

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OptiMOS 300 V in the TO-220 package provides the industry's best $R_{DS(on)}$ with more than 58 percent lower Figure of Merit (FOM: $R_{DS(on)} \times Q_g$) when compared to other available products. This translates directly into lower conduction losses and improved overall efficiency in high current applications such as motor control.

Availability

OptiMOS 300 V is available in two packages: D²PAK with $R_{DS(on)}$ of 40.7 m Ω and TO-220 with $R_{DS(on)}$ of 41 m Ω . Both packages are in production. Further information about the OptiMOS 300 V is available at www.infineon.com/optimos-300v.

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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