

Market News

New OptiMOS™ 6 40 V family: Impressive $R_{DS(on)}$ combined with superior switching performance

Munich, Germany – 14 March 2019 – Committed to set new technology standards in discrete power MOSFET technologies, Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces its new OptiMOS™ 6 family. Based on Infineon's thin wafer technology it enables significant performance benefits and will cover a wide voltage range. The new 40 V MOSFET family has been optimized for synchronous rectification in SMPS for [servers](#), [desktop PCs](#), [wireless chargers](#), quick chargers, and ORing circuits. The new OptiMOS 6 family will be showcased at the APEC 2019 exhibition in Anaheim, CA.

Compared to the previous generation, the new OptiMOS 6 40 V delivers a 30 percent reduced on state resistance and improved figure of merits ($Q_g \times R_{DS(on)}$ down by 29 percent and $Q_{gd} \times R_{DS(on)}$ down by 46 percent). Hence, used in SMPS applications the devices are ideal for efficiency optimization over a wide range of output power, avoiding the trade-off between low and high load conditions.

The efficiency curve clearly shows that OptiMOS 6 outperforms previous generation products at low output power levels due to its superior switching performance. This can be maintained at even higher output levels despite the dominance of $R_{DS(on)}$ losses. As a result, developers profit from easier thermal designs and less paralleling efforts leading to lower system cost.

Availability

The OptiMOS 6 power MOSFET 40 V family is available in two different packages:

- › SuperSO8, 5 mm x 6 mm, $R_{DS(on)}$ ranging from 5.9 mΩ down to 0.7 mΩ
- › PQFN 3x3, 3.3 mm x 3.3 mm, $R_{DS(on)}$ ranging from 6.3 mΩ down to 1.8 mΩ.

More information is available at www.infineon.com/optimos6.

Infineon at APEC 2019

Visit us at APEC 2019 Exhibition & Conference (Anaheim, CA, USA; 17 – 21 March) at booth #711. Discover our latest power management innovations that make life

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easier, safer and greener in applications that range from renewable energy, home appliances and industrial applications to efficient power conversion for consumer applications, high-performance servers and telecom. More information is available at www.infineon.com/apec.



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