Market News

New OptiMOS™ 7 40V MOSFET family for automotive applications improves on-state resistance, switching efficiency as well as design robustness

Munich, Germany – 5 May, 2023 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today announced the OptiMOS™ 7 40V MOSFET family, its latest generation of power MOSFETs for automotive applications in a variety of lead-free and robust power packages. The new family combines 300 mm thin-wafer technology with innovative packaging to deliver significant performance benefits in tiny packages. This makes the MOSFETs ideal for all standard and future automotive 40V MOSFET applications, such as electric power steering, braking systems, disconnect switches new zone architectures. OptiMOS 7 is also aiming at battery management, e-fuse boxes as well as DC-DC and BLDC drives in a wide range of variants.

“The OptiMOS 7 40V MOSFET family will set a new benchmark in power density, current capability and chip ruggedness,” said Axel Hahn, Senior Vice President Automotive MOSFET of Infineon. “With its leading edge technology, the family offers excellent efficiency and power in a compact design. The devices offer the highest power density and energy efficiency with the industry’s lowest on-state resistance.”

The new OptiMOS family members offer reduced switching losses, improved Safe Operating Area (SOA) robustness and high avalanche current capability. As a result, they facilitate the design of tomorrow’s high efficiency automotive applications. The devices are available in a variety of rugged automotive power packages, including TDSON-8, HSOF-5, HSOF-8 and topside cooling. The family enables high system efficiency in the smallest form factor while reducing space requirements. In addition, cooling can be improved while system costs are reduced. The devices enable easy design of products and applications with the highest quality.

Availability

The OptiMOS 40 V family is in production, first products can be ordered in August 2023. More information is available at www.infineon.com/optimos7. The product will be showcased at PCIM 2023.

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Reinhard von Faltin (Headquarters)	Tel.: +49 89 234 39694	reinhard.vonfaltin@infineon.com	**Investor Relations:**
Agnes Toan (Americas)	Tel.: +1 408 250 1814	agnes.toan@infineon.com	Tel: +49 89 234 26655
Chi Kang David Ong (Asia-Pacific)	Tel.: +65 6876 3070	david.ong@infineon.com	investor.relations@infineon.com
Penny Yang (Greater China)	Tel.: +86 21 6101 9276	penny.yang@infineon.com	
Yasuyuki Kamiseki (Japan)	Tel.: +81 3 4595 7079	media-relations.jp@infineon.com	

Infineon at the PCIM 2023

At the PCIM Europe 2023 tradeshow, Infineon is showcasing innovative product-to-system solutions for applications that will power the world and shape the future. Company representatives will also be giving several presentations at the accompanying PCIM Conference and Industry & E-Mobility Forum with live and on-demand video presentations, followed by discussions with the speakers. “Driving decarbonization and digitalization. Together.” at the Infineon booth #412 in hall 7, 9-11 May, 2023 in Nuremberg/Germany. Information about the PCIM Europe 2023 show highlights is available at www.infineon.com/pcim.

More information about Infineon’s contribution to energy efficiency: www.infineon.com/green-energy

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