



News Release / Presseinformation

Infineon Extends its Market Leading CoolMOS™ MOSFET Portfolio, Introduces 600V P6 Product Family That Sets Benchmarks in Price/Performance Segment

Neubiberg, Germany – November 8, 2012 – Infineon Technologies AG introduces the new 600V CoolMOS™ P6 MOSFET product family, Designed to enable higher system efficiency while being easy to use, the new products address the gap between technologies that focus on delivering ultimate performance (CoolMOS™ CP), and those that concentrate more on ease of use (e.g. CoolMOS™ C6 or E6). P6 technology provides high performance in hard and soft switching PFC (Power Factor Correction) and PWM (Pulse-Width Modulation) topologies in applications such as Server, Telecom Rectifier, PC Silverbox and Gaming Consoles. Moreover, with its granular portfolio, the CoolMOS™ P6 family of products offers the best price/performance ratio of any Superjunction MOSFET technology available on the market today.

“With the new and highly innovative CoolMOS™ P6 technology, Infineon has created a path for our customers towards both very high conversion efficiency as well as shorter system development times,” said Jan-Willem Reynaerts, Product Segment Head of High Voltage Power Conversion at Infineon Technologies. “The unique combination of P6 product characteristics with field-proven CoolMOS™ quality and reliability strengthens Infineon’s leadership in power conversion.”

CoolMOS™ P6 provides improved efficiency especially in light load conditions due to its low gate charge (Q_g). The product family also features a higher threshold voltage (V_{th}) which results in earlier turn-off behavior for better efficiency in soft switching applications. The robust body diode allows the use of P6 not only in hard switching PFC stages but also in soft switching PWM (eg. LLC) stages.

Optimized integrated Gate Resistor (R_g) values ensure an optimum balance between efficiency and ease of use as well as good controllability of the switching behavior.

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Media Relations:
Worldwide Headquarters
U.S.A.
Asia
Japan
Investor Relations

Name:
Tillmann Geneuss
Mitch Ahiers
Chi Kang David Ong
Yoko Sasaki
EU/APAC/USA/CAN

Phone:
+49 89 234 83346
+1 408 503 2791
+65 6876 3070
+81 3 5745 7340
+49 89 234 26655

Email:
tillmann.geneuss@infineon.com
mitch.ahiers@infineon.com
david.ong@infineon.com
yoko.sasaki@infineon.com
investor.relations@infineon.com

The improved voltage slope (dv/dt) compared to previous technologies assures high robustness and better switching efficiency.

Availability

Samples of the 600V CoolMOS™ P6 products are available Q4 2012. First OEM ramp-ups are expected Q1/2013.

For additional information on Infineon's new 600V CoolMOS™ P6 family please visit www.infineon.com/p6.

About Infineon

[Infineon](http://www.infineon.com) Technologies AG, Neubiberg, Germany, offers semiconductor and system solutions addressing three central challenges to modern society: [energy efficiency](#), [mobility](#), and [security](#). In the 2011 fiscal year (ending September 30), the company reported sales of Euro 4 billion with close to 26,000 employees worldwide. 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 news release is available online at www.infineon.com/press

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Tillmann Geneuss
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EU/APAC/USA/CAN

Phone:
+49 89 234 83346
+1 408 503 2791
+65 6876 3070
+81 3 5745 7340
+49 89 234 26655

Email:
tillmann.geneuss@infineon.com
mitch.ahiers@infineon.com
david.ong@infineon.com
yoko.sasaki@infineon.com
investor.relations@infineon.com