

Market News

OptiMOS™ IPOL voltage regulators with COT engine for enhanced transients and easy design

Munich, Germany – 16 March, 2020 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces the IR3887M, IR3888M and IR3889M devices in its new family of integrated-point-of-load voltage regulators featuring a fast constant-on-time (COT) engine. This product family is designed for today's [server](#), base station and [telecom](#) (operating at 85°C ambient temperature) and storage applications requiring both high efficiency and high density. The IR3887M is the smallest 30 A device on the market. Fusing Infineon's latest FET generation and enhanced package technology allows for thermal support for 30 A in a small 4 mm x 5 mm footprint.

The [OptiMOS™](#) IPOL product family comes with an enhanced-stability COT engine with ceramic capacitors without the need for external compensation. Wide input voltage range of 4.3 V - 17 V, 2 V_{min} with 5 V external bias, and precise output voltage (0.5 % accurate reference voltage) are supported. The voltage regulators offer high efficiency at light-load and thermally-compensated internal overcurrent protection with four selectable limits for a less expensive and smaller inductor.

High switching frequency (up to 2 MHz) for small PCB size and fewer bill-of-materials (BOM) is guaranteed with easy design and layout. These products provide benchmark efficiency, low power losses and the ability to thermally handle up to 30 A of continuous current. Customers can also benefit from the benchmark output voltage regulation and enhanced load transients response.

The IR3888M and IR3889M come in a small, 5 mm x 6 mm footprint in a PQFN package. The IR3888M handles continuous current up to 25 A and is RoHS2 compliant.

Availability

The IR3888M and IR3889M are in stock now. The IR3887M device is also planned for release in 2020. More information will be available at www.infineon.com/integrated-pol-voltage-regulators.

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Sonja Burfeind (Headquarters)
Sian Cummings (Americas)
Chi Kang David Ong (Asia-Pacific)
Jonathan Liu (Greater China)
Yoko Sasaki (Japan)

Tel.: +49 89 234 38765
Tel.: +1 310 252 7148
Tel.: +65 6876 3070
Tel.: +86 21 6101 9182
Tel.: +81 3 5745 7340

sonja.burfeind@infineon.com
sian.cummings@infineon.com
david.ong@infineon.com
jonathan.liu@infineon.com
yoko.sasaki@infineon.com

Investor Relations:
Tel: +49 89 234 26655
investor.relations@infineon.com