Power Products Article Archive

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*Power MOSFETs Feature Ultra-Low On-State Resistance*, International Rectifier’s StrongIRFET family of 40-V HEXFET MOSFETs

*High-Efficiency Stepper Motor Driver IC Targets Office Automation Equipment*, ON Semiconductor’s LV8702V stepper-motor-driver IC

*Low-Power Buck Converter Aims To Accelerate Energy Harvesting Designs*, Texas Instruments’ TPS62736 Nano-power Buck Converter

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**February 2013:**

*Single-Stage LED Driver Cuts BOM Cost in Price-Sensitive Retrofit Bulbs*, iWatt’s iW3626 single-stage LED driver

*Robust Angular Position Sensor Finds Use In Transmission Control Unit*, Austriamicrosystems’ AS5134 angular position sensor

*Hybrid Power Controller Chip Delivers Benefits of Analog + Digital Control*, Microchip Technology’s MCP19111 digitally enhanced power analog controller with integrated synchronous driver
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**Gate Drivers Are Optimized For IGBTs And SiC FETs**, Texas Instruments’ UCC27531 and UCC27532 single-channel output stage gate drivers

**Universal Lighting Controller Promises To Enhance Many Applications**, STMicroelectronics’ STLUX385 digital controller for lighting and power supply applications

**Upgraded Design Tool, New Firmware Enhance Capabilities Of Digital Controller**, Powervation’s PowerSMART design tool and firmware for the PV3012

**Synchronous Rectifier Controller With Sync Function Simplifies SMPS Designs**, International Rectifier’s IR1169 high-speed synchronous rectifier controller

**NiMH Battery Charger Is Rugged And Portable**, Absopulse Electronics’ BCP 130-PEL NiMH battery charger

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**User-Defined Power Modules Take Configurability To A New Level**, Vicor’s User-Defined, VI Chip PRM Modules

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**Smart Bypass Diode Lowers Power Dissipation**, Texas Instruments’ SM74611 smart bypass diode

**Buck Converter Delivers 25 A From A 5-mm x 6-mm PQFN**, International Rectifier’s IR3847 Gen3 SupIRBuck voltage regulator

**Development Board Facilitates Design of High-Frequency Converters Using GaN Transistors**, Efficient Power Conversion’s EPC9010 development board, for evaluation of EPC’s 100-V eGaN FETs
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**High-Voltage Silicon Diodes Achieve Ultrafast Recovery**, Infineon Technologies’ Rapid 1 and Rapid 2 650-V fast-recovery silicon diode families

**May 2013:**

**Single-Stage LED Drivers Deliver High Dimmer Compatibility At Competitive BOM Cost**, Cirrus Logic’s CS1615/16 single-stage LED driver ICs

**Gate Firing Board Simultaneously Controls Multiple Large SCRs**, Applied Power Systems’ BAP3012 12-pulse gate firing board

**SiC-Based PV Inverters Display Reduced Size, Weight And Cost**, Delta Energy Systems’ SOLIVIA 11 TR SiC-based PV inverter featuring Cree’s 1200-V, 160-mΩ silicon carbide (SiC) MOSFETs

**Fast-Switching Solid-State Relays Consume Ultra-Low Power**, Electronic Design & Research’s μR2M and μD2M series solid-state relays

**Precision N-Channel MOSFET Arrays Feature Zero Threshold Voltage**, Advanced Linear Devices’ ALD210800A/ALD210800 n-channel MOSFET arrays

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**Intelligent Power Modules Reinforce Automotive Safety**, Mitsubishi Electric’s PM800CJG060G and PM500CJG120G J-series automotive IPMs

**PMIC Reduces Thermal Stress On Application Processors In Mobil Devices**, ams’ AS3721 PMIC and AS3729 point-of-load power stage

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- **DC Power System Solution Targets Positive Train Control Applications, Eltek’s Micropack Modular Power System**
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- **Low-Voltage Power Supply And Battery Charger Delivers 12 kW, Applied Power Systems’ APS AP-6612 low-voltage power supply and battery charger (LVPS/BC)**
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