

Alpha & Omega Power Management Solutions

I talked with Francois Hebert PhD, Chief Technology Officer and Tony Grizelj VP, Marketing of Alpha & Omega Semiconductor.

Established September, 2000 with corporate headquarters in Sunnyvale, California the company has its R&D center in USA and Operations center in Shanghai with sales offices worldwide.

The company specializes in power semiconductor solutions such as power MOSFETs, power ICs and transient voltage suppressors and has been profitable since Q4 2002 with \$200M/year revenue and over 2 billion units shipped

per year.

With over 300 employees the company has enjoyed explosive growth due to their commitment to value, technology and service in the three broad areas covered.

Power MOSFETs: Products optimized for low RDS(ON), DC/DC conversion, load switching, motor control, power management, battery protection.

Power ICs: “EZ” family of DC/DC regulators, smart load switches, battery protection.

Transient Voltage Suppressor (TVS) & EMI Filters: Family of ultra-

low capacitance products with high ESD ratings and tight clamping voltage designed to protect high speed data interfaces.

The company is a pioneer in 8” fab-lite model for Trench MOSFETs and develops proprietary processes using advanced 8” fabs deploying state-of-the-art equipment to deliver the highest performance and cost-effective and well supported solutions for its customers.

www.aosmd.com

Fairchild’s Power-SPMTM Module

Enables Power Supplies to Meet Stringent ENERGY STAR®

FAIRCHILD
Power-SPM™
AS SEEN IN module for
Synchronous Rectification

**POWER SYSTEMS
DESIGN
MAGAZINE**

March 2008
Includes 2 MOSFETs,
current gate driver
Simplified design in 20% less space

Fairchild Semiconductor now offers power supply designers a Power-SPM module that increases efficiency in power supplies to meet stringent ENERGY STAR requirements. The Power-SPM FPP06R001 is a highly integrated synchronous rectification module that increases power efficiency, system ruggedness and space efficiency in power supply designs. Incorporating two PowerTrench® MOSFETs and a high current gate driver in a compact trans-

fer-molded package simplifies board design to 10 discrete components, which reduces board space by 20%. It provides 100mΩ resistance and 100nH inductance conditions, which reduce dissipation and increase high efficiency power supply operation. These requirements provide greater efficiency in energy-efficiency challenges.

Power Systems Design
EUROPE
Empowering Global Innovation
March 2008

ZETEX
SEMICONDUCTOR

PSD Green Power
Power Player
MarketWatch
TechTalk
Design Tips
Special Report - Lighting Systems Part I
APEC 2008 Roundup

New Infineon MOSFET Families

Reduce Power Losses by up to 30%

Infineon Technologies has announced three new families of power semiconductors to its extensive OptiMOS™ 3 N-channel MOSFET portfolio. The OptiMOS 3 40V, 60V and 80V families offer

industry-leading performance in such key power conversion metrics as on-state resistance, which allows them to reduce power losses by as much as 30 percent in a given standard TO (Transis-

tor Outline) package. The low switching losses and on-state resistance of the OptiMOS 3 40V, 60V and 80V families enable an increase in power densities by up to 30 %, and a reduction in part