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Alpha & Omega Semiconductor Enters the Boost Regulator Market

The AOZ1905 EZBoost™ Regulator Offers Industry Leading Efficiency

Sunnyvale, CA, July 2, 2008 – Alpha & Omega Semiconductor, Inc. (AOS) today introduced AOZ1905, their first regulator in the EZBoost™ family. The new device is ideal for high efficiency DC-DC boost applications such as for providing bias voltages in LCD panel power for handhelds, notebooks, monitors and TVs as well as for general purpose boost applications in personal navigation devices, power tools, set top boxes and TV tuners.

“The [AOZ1905 EZBoost regulator](#) integrates a low $R_{DS(on)}$ boost FET capable of output voltages as high as 24V while enabling up to 3% higher efficiency compared to competing devices with similar current rating,” said Alan Moore, Marketing Manager of Power IC products at AOS.

“This new EZBoost regulator complements our highly successful [EZBuck™ family](#). AOS now has complete DC-DC converter solutions for a wide variety of consumer and industrial applications,” added Moore. “We are already shipping this product in volume to our key customers.”

Technical Highlights

The AOZ1905 is a high-performance, current-mode, constant frequency boost regulator with a switch current limit of 2A. It has a pin selectable switching frequency of 600kHz or 1.2MHz to optimize efficiency and external component size depending on the application requirements.

The current-mode control ensures easy loop compensation and fast transient response. The AOZ1905 works from a 2.7V to 5.5V input voltage range and generates an output voltage as high as 24V. The built-in 0.15ohm/2.4A MOSFET can achieve greater than 90% efficiency. Other features include input under-voltage lockout, cycle-by-cycle current limit, thermal shutdown and soft-start.

Pricing and Availability

The AOZ1905 is available in a 8-pin MSOP or 10-pin 3mm x 3mm DFN package. Pricing in 1000 piece quantities starts at US\$0.95 for the MSOP, and US\$0.99 for the DFN package.

About AOS

Alpha & Omega Semiconductor, Inc. is a fabless semiconductor company that develops leading-edge analog power management solutions. AOS offers a wide portfolio of [Power MOSFET](#), [Power IC](#) and [Transient Voltage Suppressor](#) products that incorporate advances in device design, silicon and packaging technologies. AOS' products meet the ever-increasing performance and power efficiency requirements in high-volume consumer applications such as portable and desktop computers, digital cameras, cell phones and LCD panels. For more information, please visit www.aosmd.com.

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