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Alpha & Omega Semiconductor Expands Smart Load Switch Portfolio

AOZ1321 Can Switch Up to 2A in Tiny 1.2x1.6mm DFN Package

Sunnyvale, Calif, November 11, 2008 – Alpha & Omega Semiconductor, Inc. (AOS) introduces an addition to its Smart Load Switch Family with the release of the AOZ1321. This new device offers a best-in-class $R_{DS(ON)}$ -to-footprint ratio to efficiently manage loads in the smallest PCB area. The AOZ1321 is ideally suited for portable applications such as cell phones, smart phones, portable navigation devices, notebook computers and other hand held consumer electronics.

“With the combination of 60 mOhm $R_{DS(ON)}$ and a tiny 1.2x1.6mm DFN package, the AOZ1321 offers industry-leading performance and is the ideal switch for many battery operated devices,” said Alan Moore, Marketing Manager for AOS’ Power IC products. “The AOZ1321 simplifies designs by including features such as slew rate control and load discharge that eliminate input supply glitches and other noise. These integrated features save up to 7 external components.”

Technical Highlights

The AOZ1321 is a P-channel high-side load switch that operates from an input voltage range of 1.6V to 5.5V and offers guaranteed turn on with low voltage GPIOs as low as 1.2V. The device is available in a variety of factory programmed slew rate options (1us, 100us, 800us) to reduce in-rush current and supply glitches under various system load conditions.

In addition, the AOZ1321 is available in options that feature an active load discharge circuit. This feature provides a safe system shutdown function by discharging any remaining capacitive voltage from the system when the load switch is turned off.

The following table summarizes the AOZ1321 slew rate and output discharge ordering options:

Part Number	Slew Rate	Output Discharge
AOZ1321DI-01L	800us	No
AOZ1321DI-02L	1us	No
AOZ1321DI-03L	100us	Yes
AOZ1321DI-04L	800us	Yes
AOZ1321DI-05L	1us	Yes
AOZ1321DI-06L	100us	No

Pricing and Availability

The AOZ1321 is available in a 4-pin 1.2mm x 1.6mm DFN package and operates over the -40°C to +85°C ambient temperature range. Pricing in 1000 piece quantities begins at US\$0.32/each.

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. AOS has offices and sales representatives worldwide including the Americas, Europe and Asia Pacific. For more information, please visit www.aosmd.com.

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