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Alpha & Omega Semiconductor Introduces Family of Low Voltage and Low On-Resistance Analog Switches

SUNNYVALE, Calif, October 12, 2009 – Alpha & Omega Semiconductor, Inc. (AOS) announced the release of a family of eight low voltage analog switches. The new products have an operating voltage range from 1.65V to 4.3V and are available in several single and dual configurations. The new analog switches are optimized for the switching of audio and data I/O lines in portable consumer applications.

The AOZ62xx family of dual analog switches offers very low on-resistance and on-resistance flatness. The AOZ6232, for example, is rated at a very low 0.25Ω at 2.7V with a 0.15Ω flatness rating. These features provide a solution with low insertion loss and low total harmonic distortion, which preserves overall signal integrity and allows for seamless multiplexing of various audio and data sources. The six AOZ62xx products are housed in very small footprint QFN package options, making them optimal for portable battery operated applications.

The AOZ61xx single analog switches are well suited for general purpose data switching applications. The AOZ6135 is housed in an industry standard SC70 package and features on-resistance of 0.6Ω at 4.5V. The AOZ6115 is housed in the SOT23-5L package and features a very low capacitance of 18pF, and a low charge injection of 1pC (Vcc = 2.7V to 3.6V). These ratings allow for decreased signal distortion, making the AOZ6115 ideal for inline data switching in high speed applications.

“We are pleased with the market acceptance of our new low on-resistance analog switch product family,” said Wayne Eng, Marketing Director for AOS’ TVS and Analog Switch products. “Our new analog switch products provide a seamless solution for the switching and multiplexing of different input streams with multiple external touch points, like between a speaker and headset for audio, or like connecting an external USB signal to the data I/O lines,” Eng added.

Pricing and Availability

The AOZ6xxx family is available immediately. The table below shows brief specifications and pricing.

Part Number	Description	On Resistance	On Resistance Flatness	Supply Voltage Range	Total Harmonic Distortion	Package	Unit Price (1K+)
		R _{ON} (Typ.) at 2.7V	RFLAT _(ON) (Max) at 2.7V	V _{CC}	THD (Typ.) %		
AOZ6115	Single SPST	1.5Ω at 4.5V	0.25Ω at 4.5V	1.65V to 5.5V	0.005%	SOT23-5L	\$0.14
AOZ6135	Single SPDT	0.6Ω at 4.5V	0.15Ω at 4.5V	1.65V to 5.5V	0.005%	SC70-6L	\$0.16
AOZ6232	Dual SPDT	0.25Ω	0.15Ω	1.65 V to 3.3V	0.024%	QFN10: 1.6x2.1mm	\$0.21
AOZ6233	Dual SPDT	0.35Ω	0.15Ω	1.65 V to 3.3V	0.024%	QFN10: 1.6x2.1mm	\$0.21
AOZ6234	Dual SPDT	0.25Ω	0.15Ω	2.3 V to 4.3V	0.024%	QFN10: 1.6x2.1mm	\$0.21
AOZ6237	Dual SPDT	0.40Ω	0.15Ω	1.65 V to 4.3V	0.024%	QFN10: 1.4x1.8mm, 0.4mm pitch	\$0.24
AOZ6238	Dual SPDT w/ I/O termination	0.40Ω	0.15Ω	1.65 V to 4.3V	0.024%	QFN10: 1.4x1.8mm, 0.4mm pitch	\$0.25
AOZ6274	Dual DPDT	0.40Ω	0.15Ω	1.65 V to 4.3V	0.024%	QFN16: 3.0x3.0mm	\$0.30

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, Analog Switch 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 computing and consumer applications such as portable and desktop computers, digital cameras, cell phones, and LCD TVs. AOS has offices worldwide including the United States, China, Hong Kong, Taiwan and South Korea. For more information, please visit www.aosmd.com

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