

**FOR IMMEDIATE RELEASE**

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## Alpha and Omega Semiconductor Introduces 18V 2A, and 3A EZBuck™ in Thermally Enhanced Ultra-thin TSOT23-6 package

*Synchronous DC/DC Buck Regulators Feature Lower Quiescent Current and Proprietary Light Load Mode to Achieve up to 6% Higher Efficiency in Standby Mode*

SUNNYVALE, Calif., Nov. 6, 2019 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of power semiconductors and power ICs, today introduced [AOZ6682CI](#) and [AOZ6683CI](#). These devices are high efficiency, simple-to-use synchronous buck regulators. The AOZ6682CI and AOZ6683CI are both available in an ultra-thin, thermally enhanced TSOT23-6 package and deliver 2A and 3A output current, respectively. The new devices offer high efficiency over the full load range, allowing greener power conversion for a variety of consumer electronics applications such as LCD TVs, set-top boxes, high definition Blu-ray™ Disc Players and Networking terminals.

The new devices incorporate a low resistance synchronous buck power stage that enables up to 95% efficiency. Combined with a thermally enhanced package, the AOZ6682CI and AOZ6683CI achieve 10°C cooler operation at full load compared to similar competing devices. Under heavy load conditions, the devices operate in a fixed frequency continuous-conduction mode (CCM). At light loads or in standby mode, the devices employ a proprietary pulse energy mode (PEM) control scheme. This control scheme and low quiescent current of 200uA, allows the buck converter design to achieve industry-leading efficiencies of 89% at light loads.

“Modern consumer equipment must achieve less than 0.5W in standby power consumption and this is a tough problem for system designers to solve,” said Kenny Hu, Power IC Marketing Manager at AOS. “The newest 2A and 3A additions to the EZBuck family simplify this task, offering up to 6% improved efficiency compared to competing devices thanks to low quiescent current and a proprietary power-saving light load control scheme.”

### Technical Highlights

	<b>AOZ6683CI</b>	<b>Major Competitor</b>
Input Range	4.5V to 18V	4.5V to 17V
Feedback Tolerance	±2%	± 2.5%
Quiescent Current	200uA	380uA
Light Load Efficiency at 10mA (Vin=12V, Vout=5V)	89%	83%
Package	TSOT23-6	SOT23-6

### Device Specification Table

Part Number	Operating Min VIN (V)	Operating Max VIN (V)	Max Load Current (A)	Min VOUT (V)	Frequency (KHz)	LightLoad Features	Quiescent Current (uA)	Package
AOZ6682CI	4.5	18	2	0.8	750	Yes	200	TSOT23-6L
AOZ6683CI	4.5	18	3	0.8	750	Yes	200	TSOT23-6L

## **Pricing and Availability**

The AOZ6682CI and the AOZ6683CI are immediately available in production quantities with a lead time of 12 weeks. The unit price is \$0.42 for the AOZ6682CI and \$0.52 for the AOZ6683CI in 1000 pc quantities.

## **About AOS**

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#), [IPM](#), [TVS](#), [HVIC](#), [GaN/SiC](#), [Power IC](#) and Digital Power products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high performance power management solutions. AOS' portfolio of products targets high-volume applications, including portable computers, flat panel TVs, LED lighting, smart phones, battery packs, consumer and industrial motor controls and power supplies for TVs, computers, servers and telecommunications equipment. For more information, please visit [www.aosmd.com](http://www.aosmd.com).

## **Forward-Looking Statements**

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts and projections of future performance based on management's judgment, beliefs, current trends, and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products, and the potential to expand into new markets. Forward-looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date, unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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