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# Microchip Technology Expands High-Current LDO Family

## Low Output Voltage LDOs are Ceramic Capacitor Stable to Enable Smaller, More Efficient Designs

CHANDLER, Ariz.--(BUSINESS WIRE)--

Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller and analog semiconductors, today announced an expansion of its high-current, ceramic output capacitor-stable low dropout regulator (LDO) family. The 500 milliAmpere (mA) MCP1725 and MCP1825, and 1 Ampere (A) MCP1826 (MCP1725/182X) LDOs are available in packages as small as 2 mm x 3 mm DFN and SOT223. The full-featured LDOs offer a wide range of capabilities, such as shutdown, power good and adjustable power-good delay. The devices add to Microchip's existing portfolio of LDOs, completing its line of low output voltage, high-current LDOs that provide a variety of feature and package options to meet the most challenging design requirements.

Very low output voltages down to 0.8V make the MCP1725/182X LDOs ideal for use with newer FPGAs, ASICs and logic cores, which require ever-decreasing operating voltages. The LDOs are available in thermally capable packages and feature a typical low dropout voltage of 210 - 250 milliVolts, enabling them to be used in a variety of applications over a wide input-/output-voltage range at full current. Additionally, the devices are ceramic output-capacitor stable and have a low quiescent current of just 120 - 140 microAmperes, resulting in smaller, more efficient designs.

"The MCP1725/182X LDOs answer the growing low-voltage needs of newer FPGAs and logic cores, while providing highly competitive current and feature-set choices in power-capable, space-efficient packages," said Bryan Liddiard, vice president of marketing with Microchip's Analog and Interface Products Division.

Mikhail Voronoiuk, product marketing engineer with Microchip's Analog and Interface Products Division, added, "Microchip's complete family of LDOs serves many of today's demanding linear DC/DC voltage-conversion application requirements. We are pleased to announce the expansion of our portfolio of high-performance LDOs."

Device-Specific Features

The MCP1825S and MCP1826S are basic, 3-pin 500 mA and 1 A LDOs, respectively. The MCP1825 and MCP1826 add shutdown and power-good functionality; while the MCP1725 is a full-featured, 500 mA LDO with power-good delay and a sense pin, for better load regulation. The devices add to Microchip's existing portfolio of high-current LDOs, which includes the 1A MCP1726, and the 1.5A MCP1827 and MCP1827S devices. The entire portfolio is ideal for heat and space-constrained consumer and industrial electronic devices that require high currents or low operating voltages. Examples include computer graphic

processors, portable video recorders, set-top cable boxes and Switch Mode Power Supply (SMPS) post-regulators, among others.

Availability, Packaging & Pricing

Samples of the MCP1725/182X LDOs can be ordered today from http://sample.microchip.com, and volume quantities of the devices can be purchased today from www.microchipdirect.com. Packaging and pricing are as follows:

MCP1725

- 8-pin 2 mm x 3 mm DFN package for $1.01 each in 10,000-unit quantities
- 8-pin SOIC package for $0.93 each in 10,000-unit quantities

MCP1825

- 5-pin SOT223 package for $0.87 each in 10,000-unit quantities
- 5-pin DDPAK and TO220 packages for $1.01 each in 10,000-unit quantities

MCP1825S

- 3-pin SOT223 package for $0.83 each in 10,000-unit quantities
- 3-pin DDPAK and TO220 packages for $0.93 each in 10,000-unit quantities

MCP1826

- 5-pin SOT223 for $0.96 each in 10,000-unit quantities
- 5-pin DDPAK and TO220 for $1.12 each in 10,000-unit quantities

MCP1826S

- 3-pin SOT223 for $0.90 each in 10,000-unit quantities
- 3-pin DDPAK and TO220 for $1.09 each in 10,000-unit quantities

More information about the MCP1725/182X LDOs can be found at the following Web addresses:

- www.microchip.com/MCP1725
- www.microchip.com/MCP1825
- www.microchip.com/MCP1825S
- www.microchip.com/MCP1826
- www.microchip.com/MCP1826S

For further information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at www.microchip.com/LDO.

Microchip Customer Support

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About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller and analog semiconductors, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Ariz., Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at www.microchip.com.

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**Photo and Circuit Diagram available through editorial contact**

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