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Microchip Technology Introduces 16V, 250 mA LDO in 3-pin SOT-223 and Other Packages

LDO Extends Battery Run-Times and Has High Tolerance for Input-Voltage Variations

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

Microchip Technology Inc. (NASDAQ:MCHP), a leading provider of microcontroller and analog semiconductors, today announced the MCP1703 Low Dropout Regulator (LDO)--a 250 mA LDO with low quiescent current, high input voltage, over-voltage protection and thermal shutdown on a single chip. The new LDO is available in a 3-pin SOT-223 and other packages, and is ideal for applications requiring long battery run-times and high tolerance for input-voltage variations, such as smoke detectors, fire alarms and thermostats.

With a low quiescent current of 2 microamperes ((mu)A), the MCP1703 requires only a small amount of current to maintain regulation, thereby significantly decreasing wasted energy. It supports input voltages of up to 16V, meaning it can be used in a variety of high-voltage DC and multi-cell alkaline or Li-Ion battery applications. The LDO also features device- and circuit-protection capabilities, such as overcurrent protection and thermal shutdown, enabling users to more effectively avoid system failures. Additionally, with highly accurate output-voltage regulation, including +/- 2 percent over-temperature accuracy, the MCP1703 helps to ensure smooth, reliable system operation.

"With the ever-increasing use of multi-cell batteries and higher DC voltages in electronic devices, our customers need LDOs that work at higher voltages, with low quiescent current and high tolerance for input-voltage variations," said Bryan Liddiard, vice president of marketing with Microchip's Analog and Interface Products Division.

Mikhail Voroniouk, product marketing engineer with Microchip's Analog and Interface Products Division, continued, "The MCP1703 LDO was designed to meet these needs, and provide additional benefits, such as ceramic output-capacitor stability and availability in the thermally-capable, SOT-223 power package. All of these features enable smaller, more cost-effective designs."

Applications that can benefit from the MCP1703 LDO include those requiring long battery run-times (smoke detectors, life-support devices); those with high input-voltage variations (fire alarms, commercial and residential thermostats); and battery-powered portable devices (digital cameras and camcorders, notebook computers).

Packaging, Pricing and Availability

Samples of the MCP1703 LDO are available today at http://sample.microchip.com, and volume production orders can be placed today at www.microchipdirect.com. The device is available in the 3-pin SOT-223 package for $0.49 each in 10,000-unit quantities. It is also available in small, 3-pin SOT-89 and SOT-23A packages, both for $.43 each in 10,000-unit quantities.

For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at www.microchip.com/MCP1703.

Microchip Customer Support

Microchip is committed to supporting its customers by helping design engineers develop products faster and more efficiently. Customers can access four main service areas at www.microchip.com. The Support area provides a fast way to get questions answered; the Sample area offers free evaluation samples of any Microchip device; microchipDIRECT provides 24-hour pricing, ordering, inventory and credit for convenient purchasing of all Microchip devices and development tools; finally, the Training area educates customers through webinars, sign-ups for local seminar and workshop courses, and information about the annual MASTERs events held throughout the world.

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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Source: Microchip Technology Inc.