New Vishay Siliconix 40-V and 60-V MOSFETs for Automotive Applications

New Vishay Siliconix 40-V and 60-V MOSFETs Feature Industry's First Combination of High 3.4-V Threshold Voltage and Low 2.7-Milliohm On-Resistance for High-Temp Automotive Applications

(PRWEB) April 28, 2005 -- Siliconix incorporated (NASDAQ: SILI), an 80.4%-owned subsidiary of Vishay Intertechnology, Inc. (NYSE: VSH), today announced the industry's first n-channel MOSFETs that combine a high 3.4-V threshold voltage with on-resistance as low as 2.7 milliohms.

The 10 new MOSFETs, available in 40-V and 60-V versions, are intended for use in high-temperature, high-current applications with inductive loads in the automotive, industrial, and fixed telecom industries, such as high-side switches, motor drives, and 12-V boardnets.

When MOSFETs operate in high-temperature, high-current environments, they can turn on spontaneously if their threshold voltage, impacted by heat, starts to approach 0 V. Until now, this posed a dilemma for designers. One solution was the addition of a negative voltage driver to the circuit, but the drawbacks were increased circuit size, cost, and complexity. Another solution would be to use a device with a high threshold voltage, but the effect in this case is an undesirable increase in on-resistance.

This new power MOSFET family provides a way out of this dilemma with high-density silicon technology that allows the same device to deliver both low on-resistance and a high threshold voltage that avoids the problem of spontaneous turn-on in automotive, industrial, and other applications involving high temperatures and high levels of current.

Available in the DPAK, D2PAK, and PowerPAK SO-8 packages, samples and production quantities of the new MOSFETs are available now with lead times of 10 to 12 weeks for larger orders. Pricing for U.S. delivery in 100,000-piece quantities starts at $1.35 per piece.

Siliconix is a leading manufacturer of power MOSFETs, power ICs, analog switches, and multiplexers for computers, cell phones, fixed communications networks, automobiles, and other consumer and industrial electronic systems. With 2004 worldwide sales of $466.1 million, the company's facilities include a company-owned Class 1 wafer fab dedicated to the manufacture of power products in Santa Clara, Calif., and a Class 1 wafer fab located in Itzehoe, Germany, utilized under a lease arrangement. The company's products are also fabricated by subcontractors in Japan, Germany, China, Taiwan, and the United States. Assembly and test facilities include a company-owned facility in Taiwan, a joint venture in Shanghai, China, and subcontractors in the Philippines, China, Taiwan, and Israel.

Vishay Intertechnology, Inc., a Fortune 1,000 Company listed on the NYSE (VSH), is one of the world's largest manufacturers of discrete semiconductors (diodes, rectifiers, transistors, and optoelectronics) and selected ICs, and passive electronic components (resistors, capacitors, inductors, and transducers). Vishay's components can be found in products manufactured in a very broad range of industries worldwide. Vishay is headquartered in Malvern, Pa., and has operations in 17 countries employing over 25,000 people. Vishay can be found on the Internet at http://www.vishay.com.

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