

Touchstone Semiconductor Announces Its Newest 0.65µW Voltage Detector with Dual Outputs

The New TS12001 Cuts Power Consumption by 2 and Reduces PCB Area by 33%

MILPITAS, Calif. – June 26, 2012 – Touchstone Semiconductor, a developer of high-performance, low power analog integrated circuit solutions, today announced the new TS12001 voltage detector, which combines a 0.58V reference and a resettable latched comparator in a single package.

The TS12001 operates from a single 0.65V to 2.5V power supply and consumes less than 1µA total supply current. This device produces a reset signal whenever the monitored voltage drops below an internally preset 0.78V threshold or below an external, resistor-programmable reset threshold voltage.

The TS12001's internal comparator exhibits ±10mV of hysteresis for clean, chatter-free output switching. The TS12001 also offers both push-pull and open-drain outputs. Its push-pull output can source or sink current and the open-drain output can be used in wired-OR or mixed system voltage applications.

The TS12001 is an ideal choice for fixed-platform and battery-powered systems where total PCB area and power consumption matter. Target applications for the TS12001 include power-fail indicators, low-battery and battery-backup detection and CPU/ microprocessor/logic reset controllers.

Key Specifications

- Nanopower Voltage Detector in Single 4 mm² Package
- Ultra Low Total Supply Current: 1µA (max)
- Supply Voltage Operation: 0.65V to 2.5V
- Preset 0.78V UVLO Trip Threshold
- Internal ±10mV Hysteresis
- Resettable Latched Comparator
- Complimentary and Open-drain Comparator Outputs
- Separate Comparator Output Supply Pin

The TS12001 is fully specified over the -40°C to +85°C temperature range and is available in a low-profile, 10-pin 2x2mm TDFN package with an exposed back-side paddle.

The TS12001 is in stock and ready to ship from Touchstone's worldwide distributor, Future Electronics (www.futureelectronics.com). Pricing starts at \$0.32 each in 1,000 piece quantities.

For engineers wanting to evaluate the product quickly, Touchstone offers free samples and free demo boards. Samples and demo boards can be requested by visiting <http://www.touchstonesemi.com/voltagedetectors.html>. Optimized for ultra-long life operation, the TS12001 expands Touchstone's growing "NanoWatt Analog™" high-performance analog integrated circuits portfolio.

ABOUT TOUCHSTONE

Touchstone Semiconductor, Inc. (www.touchstonesemi.com) creates high-performance analog integrated circuit solutions that solve critical problems for electronics companies. Touchstone's second-source products are pin-compatible, specification identical solutions, offering customers a long-awaited alternative source for hard to get sole-sourced products. Touchstone's proprietary products provide unique combinations of features and

performance that cannot be found from any other supplier. Founded in 2010, Touchstone is headquartered in Milpitas, Calif. Its investors include Opus Capital and Khosla Ventures. Follow the company at: Twitter: @touchstonesemi, Facebook: Touchstone Semiconductor and YouTube: The Touchstone Semiconductor Channel.

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Editor's Note: Photos and datasheet are available at <http://www.touchstonesemi.com/voltagedetectors>.

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