

Touchstone Semiconductor Introduces Its First Proprietary, Low-Power Comparators for Ultra-Low Power Applications

MILPITAS, Calif. - June 23, 2011 – Touchstone Semiconductor, a developer of high-performance analog integrated circuit solutions, today announced the TS9001-1 and the TS9001-2, single-supply, low power analog comparators plus voltage reference integrated circuits. Both products are Touchstone Semiconductor’s first analog comparator products in its “NanoWatt Analog™” high-performance analog integrated circuits portfolio.

Both the TS9001-1 and the TS9001-2 are electrical specification improvements over the MAX9117 and the MAX9118, respectively. Both TS9001s incorporate a +1.252V reference with a 1% initial accuracy, a 33% initial accuracy improvement over the MAX9117 or the MAX9118. The TS9001-1 offers a robust push-pull output stage with increased output current drive while the TS9001-2 offers an open-drain output stage that can be used in mixed-voltage systems design. Both TS9001s are fully specified to operate from +1.6V to 5.5V supplies while consuming less than 0.65µA supply current.

The TS9001s are optimally designed for low-voltage, power-sensitive applications. These applications include: telemetry and remote systems, medical instrumentation, battery monitoring/management, as well as mobile and other hand-held communication devices.

Key specifications:

- Improved electrical performance over MAX9117-MAX9118
- Guaranteed to operate down to +1.6V
- Ultra-low supply current: 0.6µA
- Internal +1.252V ±1% reference
- Input voltage range extends 200mV outside-the-rails
- No phase reversal for overdriven inputs
- Output stage: push-pull (TS9001-1), open-drain (TS9001-2)
- Crowbar-current-free switching
- Internal hysteresis for clean switching

The TS9001-1 and the TS9001-2 are fully specified over the -40°C to +85°C industrial temperature range and are both offered in a space-saving 5-pin SC70 packages. TS9001 prices start at \$0.95 each in 1000-piece quantities. Products are available from Future Electronics, <http://www.futureelectronics.com/en/manufacturers/touchstone-semiconductor/pages/index.aspx>.

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. Find us at Twitter: @touchstonesemi or Facebook: Touchstone Semiconductor.

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

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