

Touchstone Semiconductor Introduces the Tightest Offset, Low-Power Current-Sense Amplifiers

Milpitas, Calif. – Nov. 30, 2011 – Touchstone Semiconductor, a developer of high-performance analog integrated circuit solutions, today announced the TS1100 family of 1 μ A current-sense amplifiers that cut offset to 30 μ V, over 3X tighter than the closest competitor. The tight offset allows users to not have to increase power consumption in order to achieve improved accuracy. This is something that cannot be done with any other low power current sense amplifier. The TS1100 is available in four gain options from 25V/V to 200V/V, so customers can choose the ideal gain option for their unique application.

The TS1100 family's combination of small form factor (SOT23-5), low supply current operation and variety of fixed gain options make it an ideal choice for low current, high-side current-sensing amplification. The TS1100 is particularly suitable for use in all battery-powered, remote or hand-held portable instruments, including power management applications, motor control and fixed-platform telecom boxes.

Like all Touchstone proprietary products, Touchstone is offering free demonstration boards to qualified customers through December 31. Engineers can register for their free demo board at <http://www.touchstonesemi.com>. A datasheet, product brief and application note are also available at <http://www.touchstonesemi.com>.

TS1100 Features

The TS1100 features a wide input common-mode voltage range from +2V to +25V. All TS1100s are specified for operation over an extended temperature range of -40°C to +105°C, or 20°C more than the 85°C offered by similar amplifiers.

Key Specifications

- Ultra-Low Supply Current: 1 μ A
- Low Input Offset Voltage: 30 μ V
- Low Gain Error: <0.5% (max)
- Wide Input Common Mode Range: +2V to +25V Voltage Output
- 5-Pin SOT23 Packaging
- Four Gain Options Available:
 - TS1100-25 = 25V/V
 - TS1100-50 = 50V/V
 - TS1100-100 = 100V/V
 - TS1100-200 = 200V/V

The TS1100 is available in a space-saving 5-pin SOT23 package. Pricing starts at \$0.71 each in 1,000 piece quantities. The TS1100 is part of Touchstone Semiconductor's NanoWatt Analog™ high-performance analog integrated circuits portfolio. The product is in stock and available from Future Electronics (<http://www.futureelectronics.com>).

In other news, Touchstone announced six new parts in its TSM9938 and TSM9634 family of current-sense amplifiers. Touchstone now offers eight current-sense amplifiers and a total of 15 analog ICs in its Maxim alternate-source product family. The ICs are pin-compatible, specification-identical and functionally identical to the corresponding Maxim product.

ABOUT TOUCHSTONE SEMICONDUCTOR

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>.

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