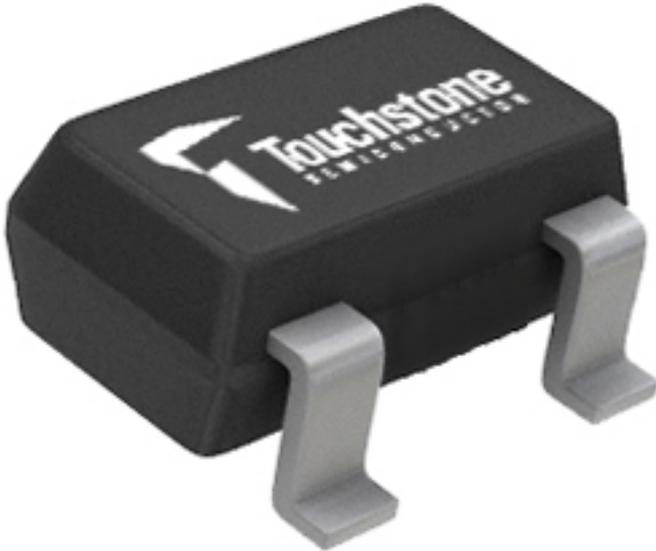


Current-sense amplifiers cut offset to 30 μ V



Touchstone Semiconductor today announced the TS1100 family of 1mA 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, power management 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> [1].

TS1100 Features

The TS1100 features a wide input common-mode voltage range from +1.6V to +25V. All TS1100s are specified for operation over an extended temperature range of -40°C to +105°C, or 30°C more than the 85°C offered by similar amplifiers.

Key Specifications

- Ultra-Low Supply Current: 1mA

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- Low Input Offset Voltage: 30 μ V
- Low Gain Error: <0.5% (max)
- Wide Input Common Mode Range: +1.6V 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> [2]).

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.

www.touchstonesemi.com [1]

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<http://www.ecnmag.com/products/2011/11/current-sense-amplifiers-cut-offset-30%C2%B5v>

Links:

[1] <http://www.touchstonesemi.com>

[2] <http://www.futureelectronics.com>