

TSM9634F Product Brief

A 1µA, SOT23 Precision Current-Sense Amplifier

FEATURES

- ♦ Second-source for MAX9634F
- ♦ Ultra-Low Supply Current: 1µA
- ♦ Wide Input Common Mode Range: +1.6V to +28V
- ♦ Low Input Offset Voltage: 250µV (max)
- ♦ Low Gain Error: <0.5% (max)
- ♦ Voltage Output
- ◆ Gain Option Available:

TSM9634F: Gain = 50V/V

♦ 5-Pin SOT23 Packaging

APPLICATIONS

Notebook Computers Power Management Systems Portable/Battery-Powered Systems PDAs Smart Phones Smart Chargers

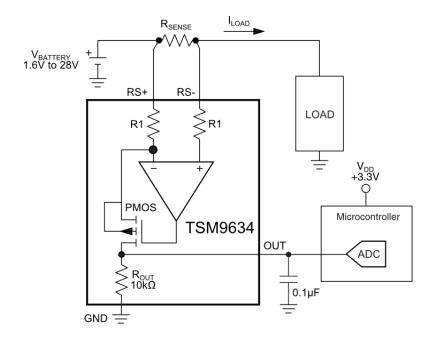
DESCRIPTION

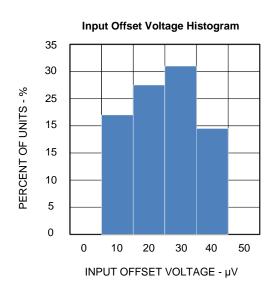
The voltage-output TSM9634F current-sense amplifier is electrically and form-factor identical to the MAX9634F current-sense amplifier. Consuming a very low 1µA supply current, the TSM9634F high-side current-sense amplifier exhibits a 250-µV (max) V_{OS} and a 0.5% (max) gain error, both specifications optimized for any precision current measurement. For all high-side current-sensing applications, the TSM9634F features a wide input common-mode voltage range from 1.6V to 28V.

The SOT23 package makes the TSM9634F an ideal choice for pcb-area-critical, low-current, high-accuracy current-sense applications in all battery-powered portable instruments.

The TSM9634F is specified for operation over the -40°C to +85°C extended temperature range.

TYPICAL APPLICATION CIRCUIT



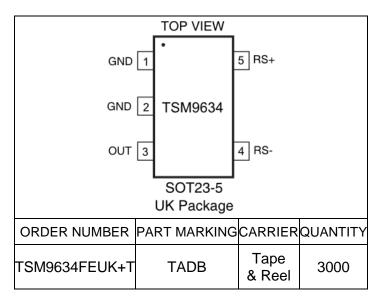


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PACKAGE/ORDERING INFORMATION



Lead-free Program: Touchstone Semiconductor supplies only lead-free packaging.

Consult Touchstone Semiconductor for products specified with wider operating temperature ranges.

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