Touchstone Semiconductor 2.5V Voltage Reference IC

Touchstone Semiconductor today announced the newest member of its voltage reference family, the TS6001A, a low-power, low-dropout precision SOT-23 voltage reference IC that reduces drift to a guaranteed 7ppm/°C maximum, a 2X improvement over its closest competitor, the MAX6025A.

The unique combination of a small form factor, few external components and low supply current make the TS6001A an ideal choice for low-voltage, supply-independent, power-sensitive applications, including handheld and battery-operated equipment.

The TS6001A is capable of sinking and sourcing load currents up to 500?A. The TS6001A consumes only 27?A of supply current at no-load. It also offers an initial accuracy initial output voltage accuracy of less than 0.08%.

Key Specifications:

- Initial V_{OUT} Accuracy:
  0.08% (max)
- V_{OUT} Temperature Coefficient:
  7ppm/°C (max) – TS6001A

15ppm/°C °C (max) TS6001B

- Quiescent Supply Current: 35?A (max)
- High Output Source/Sink Current: ±500?A
- Low Dropout at 500?A Load Current: 100mV
- Stable with C_{LOAD}s up to 2200pF

The TS6001A and TS6001B are available in a space-saving 3-pin SOT23 package. It is in stock and ready to ship. Pricing starts at $1.75 each for the TS6001A and $1.60 for the TS6001B in 1,000 piece quantities. The product is in stock and available from Future Electronics (www.futureelectronics.com [1]).

Free samples and free demo boards are available for engineers wanting to test the product. Visit: http://www.touchstonesemi.com/freedemoboards.html [2].

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[1] http://www.futureelectronics.com
[2] http://www.touchstonesemi.com/freedemoboards.html