

## Product Overview

### FAN2500: CMOS Low Dropout Voltage Regulator

For complete documentation, see the data sheet.

The FAN2500 of micropower low-dropout voltage regulators utilizes CMOS technology to offer a new level of cost-effective performance in GSM and TDMA cellular handsets, laptop and notebook portable computers, and other portable devices. Features include extremely low power consumption and low shutdown current, low dropout voltage, exceptional loop stability able to accommodate a wide variety of external capacitors, and the compact SOT23-5 surface-mount package. The FAN2500 products offer significant improvements over older BiCMOS designs and are pin-compatible with many popular devices. The output is thermally protected against overload. FAN2500: pin 4 – ADJ, allowing the user to adjust the output voltage over a wide range using an external voltage divider. FAN2500-XX: pin 4 – BYP, to which a bypass capacitor may be connected for optimal noise performance. Output voltage is fixed, indicated by the suffix XX. The standard fixed output voltages available are 2.5 V, 3.0 V, and 3.3 V.

### Features

- Ultra-Low Power Consumption
- 100 mV Dropout Voltage at 100 mA
- 25  $\mu$ A Ground Current at 100 mA
- Enable / Shutdown Control
- SOT23-5 package
- Thermal Limiting
- 300 mA Peak Current
- Cellular Phones and Accessories
- PDAs
- Portable Cameras and Video Recorders

For more features, see the data sheet

### Applications

- This product is general usage and suitable for many different applications.

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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