Product Overview

NCP561: 150 mA CMOS Low Quiescent Current Low Dropout Linear Voltage Regulator

For complete documentation, see the data sheet.

The NCP561 series of fixed output low dropout linear regulators are designed for handheld communication equipment and portable battery powered applications which require low quiescent. The NCP561 series features an ultra low quiescent current of 3.0 µA. Each device contains a voltage reference unit, an error amplifier, a PMOS power transistor, resistors for setting output voltage, current limit, and temperature limit protection circuits. The NCP561 has been designed to be used with low cost ceramic capacitors and requires a minimum output capacitor of 1.0 µF. The device is housed in the micro-miniature TSOP-5 surface mount package. Standard voltage versions are 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, and 5.0 V.

Features

• Low Quiescent Current of 3.0 µA Typical
• Low Dropout Voltage of 170 mV at 150 mA
• Low Output Voltage Option
• Output Voltage Accuracy of 2.0%
• Industrial Temperature Range of –40°C to 85°C

Applications

• Battery Powered Instruments
• Hand-Held Instruments
• Camcorders and Cameras

For more information please contact your local sales support at www.onsemi.com.

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