

AT5205

150mA Low - Noise LDO Regulator



Immense Advance Tech.

DESCRIPTION

- Low-noise output
- High output voltage accuracy
- Guaranteed 150mA output
- Low GND current
- Low dropout voltage
- Extremely tight load and line regulation
- Very low temperature coefficient
- Current and thermal limiting
- Reverse-battery protection

APPLICATION

- Cellular telephones
- Laptop, notebook, and palmtop computers
- Battery-powered equipment
- PCMCIA V_{CC} and V_{PP} regulation / switching
- Consumer / personal electronics
- SMPS post-regulator / dc-to-dc modules
- High-efficiency linear power supplies

FEATURES

The AT5205 series voltage regulators are specifically designed for use as a power source for video instruments, handheld communication equipment, and battery powered equipment.

The AT5205 series voltage regulator ICs feature a high accuracy output voltage and low GND current. Each device contains a voltage reference unit, an error amplifier, a driver transistor, and resistors for setting output voltage, and a current limit circuit. These devices are available in SOT-89 and SOT-25 surface mount packages, and allow construction of an efficient, constant voltage power supply circuit.

TYPICAL APPLICATION CIRCUITS

