



FEATURES

- Available in $\pm 2\%$ Output Tolerance.
- Active High ON/OFF Control.
- Very Low Quiescent Current.
- Very Low Dropout Voltage.
- Reverse Bias Protection.
- Miniature Package (SOT-23-5)
- Short Circuit and Thermal Protection.
- Very Low Noise.

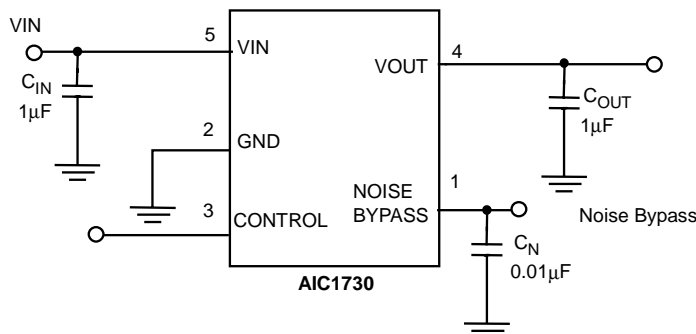
APPLICATIONS

- Cellular Telephones.
- Pagers.
- Personal Communication Equipment.
- Cordless Telephones.
- Portable Instrumentation.
- Portable Consumer Equipment.
- Radio Control Systems.
- Low Voltage Systems.
- Battery Powered System.

DESCRIPTION

The AIC1730 is a low noise, low dropout linear regulator, housed in a small SOT-23-5 package. The device is in the "ON" state when the control pin is set to a logic high level. An internal P-MOSFET pass transistor is used to achieve a low dropout voltage of 90mV (typ.) at 50mA load current. It offers high precision output voltage of $\pm 2\%$. The very low quiescent current and low dropout voltage make this device ideal for battery powered applications. The internal reverse bias protection eliminates the requirement for a reverse voltage protection diode. The high ripple rejection and low noise provide enhanced performance for critical applications. An external capacitor can be connected to the noise bypass pin to reduce the output noise level.

TYPICAL APPLICATION CIRCUIT



Low Dropout Linear Regulator

ORDERING INFORMATION

AIC1730 XXXX

- PACKAGE TYPE
V: SOT-25
- TEMPERATURE RANGE
C: 0°C~+70°C
- OUTPUT VOLTAGE
18: 1.8V
25: 2.5V
27: 2.7V
30: 3.0V
33: 3.3V

ORDER NUMBER	PIN CONFIGURATION
AIC1730-18CV AIC1730-25CV AIC1730-27CV AIC1730-30CV AIC1730-33CV (SOT-25)	TOP VIEW