

LDO Regulator Neg -1.22V to -20V 0.2A Automotive 5-Pin TSOT-23 T/R

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	5SOT2
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1964ES5-SD#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT1964 is a micropower low noise, low dropout negative regulator. The device is capable of supplying 200mA of output current with a dropout voltage of 340mV. Low quiescent current (30µA operating and 3µA shutdown) makes the LT1964 an excellent choice for battery-powered applications. Quiescent current is well controlled in dropout.

Other features of the LT1964 include low output noise. With the addition of an external 0.01µF bypass capacitor, output noise is reduced to 30µVRMS over a 10Hz to 100kHz bandwidth. The LT1964 is capable of operating with small capacitors and is stable with output capacitors as low as 1µF. Small ceramic capacitors can be used without the necessary addition of ESR as is common with other regulators. Internal protection circuitry includes reverse output protection, current limiting, and thermal limiting. The device is available with a fixed output voltage of -5V and as an adjustable device with a -1.22V reference voltage. The LT1964 regulators are available in a low profile (1mm) ThinSOT and the low profile (0.75mm) 8-pin (3mm × 3mm) DFN packages.

## Features

Low Noise: 30 $\mu$ V<sub>RMS</sub> (10Hz to 100kHz)

Low Quiescent Current: 30 $\mu$ A

Low Dropout Voltage: 340mV

Output Current: 200mA

Fixed Output Voltage: -5V

Adjustable Output from -1.22V to -20V

Positive or Negative Shutdown Logic

3 $\mu$ A Quiescent Current in Shutdown

Stable with 1 $\mu$ F Output Capacitor

Stable with Aluminum, Tantalum, or Ceramic Capacitors

Thermal Limiting

Low Profile (1mm) ThinSOT™ and (0.75mm) 8-Pin 3mm × 3mm DFN Packages

## Application

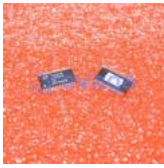
Battery-Powered Instruments

Low Noise Regulator for Noise-Sensitive Instrumentation

Negative Complement to LT1761 Family of Positive LDOs



## Related Products



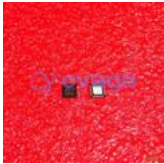
[LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



[LT1038CK](#)

Analog Devices, Inc  
TO-3



[LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN