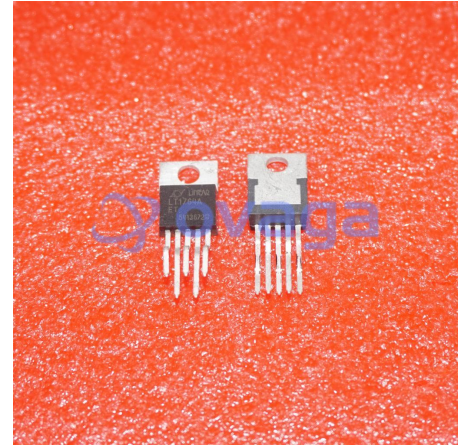


LDO Regulator, 3A Adjustable, 1.21 20 V 5-Pin, TO-220

Manufacturers	Analog Devices, Inc
Package/Case	TO-220
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1764AET#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1764A is a low dropout regulator optimized for fast transient response. The device is capable of supplying 3A of output current with a dropout voltage of 340mV. Operating quiescent current is 1mA, dropping to <math><1\mu\text{A}</math> in shutdown. Quiescent current is well controlled; it does not rise in dropout as it does with many other regulators. In addition to fast transient response, the LT1764A has very low output voltage noise which makes the device ideal for sensitive RF supply applications.

Output voltage range is from 1.21V to 20V. The LT1764A regulators are stable with output capacitors as low as 10 μF . Internal protection circuitry includes reverse battery protection, current limiting, thermal limiting and reverse current protection. The device is available in fixed output voltages of 1.5V, 1.8V, 2.5V, 3.3V and as an adjustable device with a 1.21V reference voltage. The LT1764A regulators are available in 5-lead TO-220 and DD packages, and 16-lead FE packages.

FeaturesLT1764-LT1764AStable With Ceramic Output Capacitors

Features

Optimized for Fast Transient Response

Output Current: 3A

Dropout Voltage: 340mV at 3A

Low Noise: 40 μ V_{RMS} (10Hz to 100kHz)

1mA Quiescent Current

Wide Input Voltage Range: 2.7V to 20V

No Protection Diodes Needed

Controlled Quiescent Current in Dropout

Fixed Output Voltages: 1.5V, 1.8V, 2.5V, 3.3V

Adjustable Output from 1.21V to 20V

Stable with 10 μ F Output Capacitor

Reverse Battery Protection

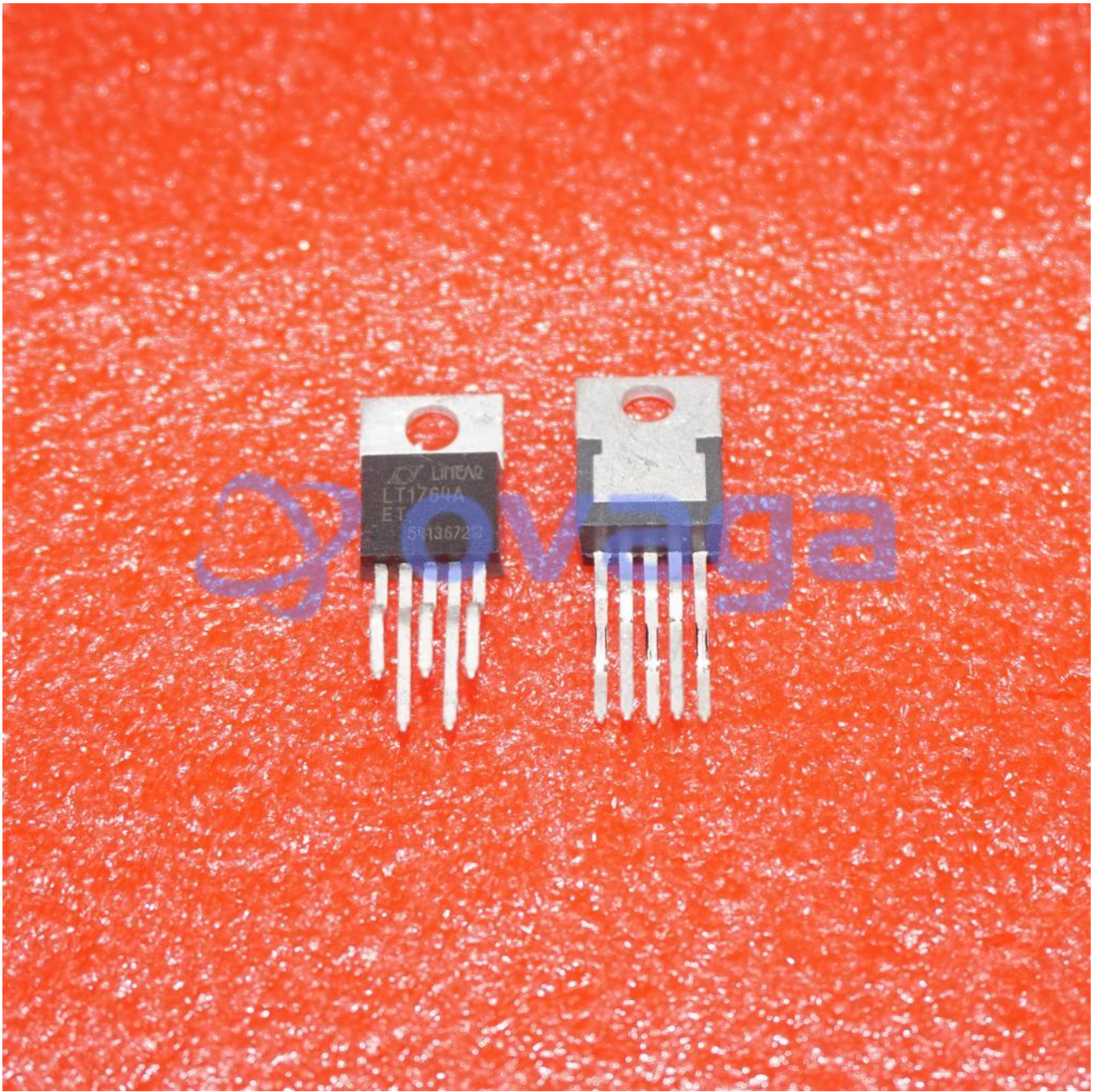
No Reverse Current

Thermal Limiting

Application

3.3V to 2.5V Logic Power Supply

Post Regulator for Switching Supplies



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](#)

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28-WFQFN