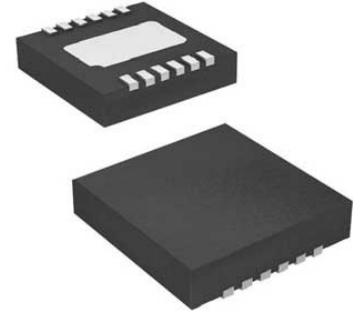


LDO Regulator Pos 1.22V to 20V 0.1A/0.5A Automotive 12-Pin DFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	DFN-12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3024IDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3024 is a dual, micropower, low noise, low dropout regulator. With an external 0.01 μ F bypass capacitor, output noise drops to 20 μ VRMS over a 10Hz to 100kHz bandwidth. Designed for use in battery-powered systems, the low 30 μ A quiescent current per output makes it an ideal choice. In shutdown, quiescent current drops to less than 0.1 μ A. Shutdown control is independent for each output, allowing for flexibility in power management. The device is capable of operating over an input voltage range of 1.8V to 20V. The device can supply 100mA of output current from Output 2 with a dropout voltage of 300mV. Output 1 can supply 500mA of output current with a dropout voltage of 300mV. Quiescent current is well controlled in dropout.

The LT3024 regulator is stable with output capacitors as low as 1 μ F for the 100mA output and 3.3 μ F for the 500mA output. Small ceramic capacitors can be used without the series resistance required by other regulators.

Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting and reverse current protection. The device is available as an adjustable device with a 1.22V reference voltage. The LT3024 regulator is available in the thermally enhanced 16-lead TSSOP and 12-lead, low profile (4mm x 3mm x 0.75mm) DFN packages.

Features

Low Noise: 20 μ V_{RMS} (10Hz to 100kHz)

Low Quiescent Current: 30 μ A/Output

Wide Input Voltage Range: 1.8V to 20V

Output Current: 100mA/500mA

Very Low Shutdown Current: <0.1 μ A

Low Dropout Voltage: 300mV at 100mA/500mA

Adjustable Outputs from 1.22V to 20V

Stable with 1 μ F/3.3 μ F Output Capacitor

Stable with Aluminum, Tantalum or Ceramic Capacitors

Reverse-Battery Protected

No Reverse Current

No Protection Diodes Needed

Overcurrent and Overtemperature Protected

Thermally Enhanced 16-Lead TSSOP and 12-Lead (4mm x 3mm) DFN Packages

Application

Cellular Phones

Pagers

Battery-Powered Systems

Frequency Synthesizers

Wireless Modems

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