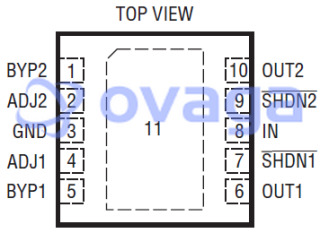
LT3023IDD#PBF

Data Sheet

Dual 100mA, Low Dropout, Low Noise, Micropower Regulator; Package: DFN; No of Pins: 10; Temperature Range: -40°C to +85°C



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	DFN-10
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LT3023IDD#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT3023 is a dual, micropower, low noise, low dropout regulator. With an external 0.01µF bypass capacitor, output noise drops to 20µVRMS over a 10Hz to 100kHz bandwidth. Designed for use in battery-powered systems, the low 20µA quiescent current per channel makes it an ideal choice. In shutdown, quiescent current drops to less than 0.1µA. Shutdown control is independent for each channel, allowing for flexibility in power management. The device is capable of operating over an input voltage from 1.8V to 20V, and can supply 100mA of output current from each channel with a dropout voltage of 300mV. Quiescent current is well controlled in dropout.

The LT3023 regulator is stable with output capacitors as low as 1µF. 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 LT3023 regulator is available in the thermally enhanced 10-lead MSOP and DFN packages.

Features

Low Noise: 20μVRMS (10Hz to 100kHz)

Low Quiescent Current: 20μA/Channel

Wide Input Voltage Range: 1.8V to 20V

Output Current: 100mA/Channel

Very Low Shutdown Current: <0.1μA

Low Dropout Voltage: 300mV at 100mA

Adjustable Output from 1.22V to 20V

Stable with 1μF 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 10-Lead MSOP and DFN Packages

Application

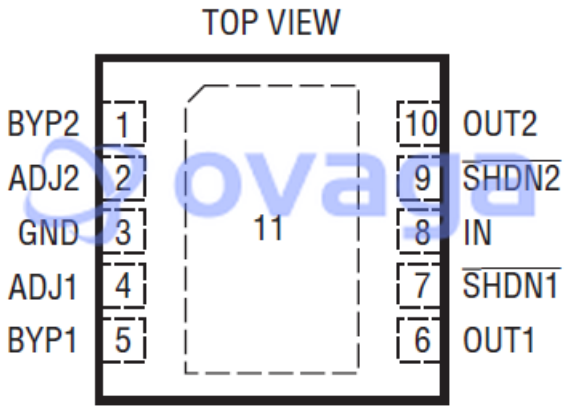
Cellular Phones

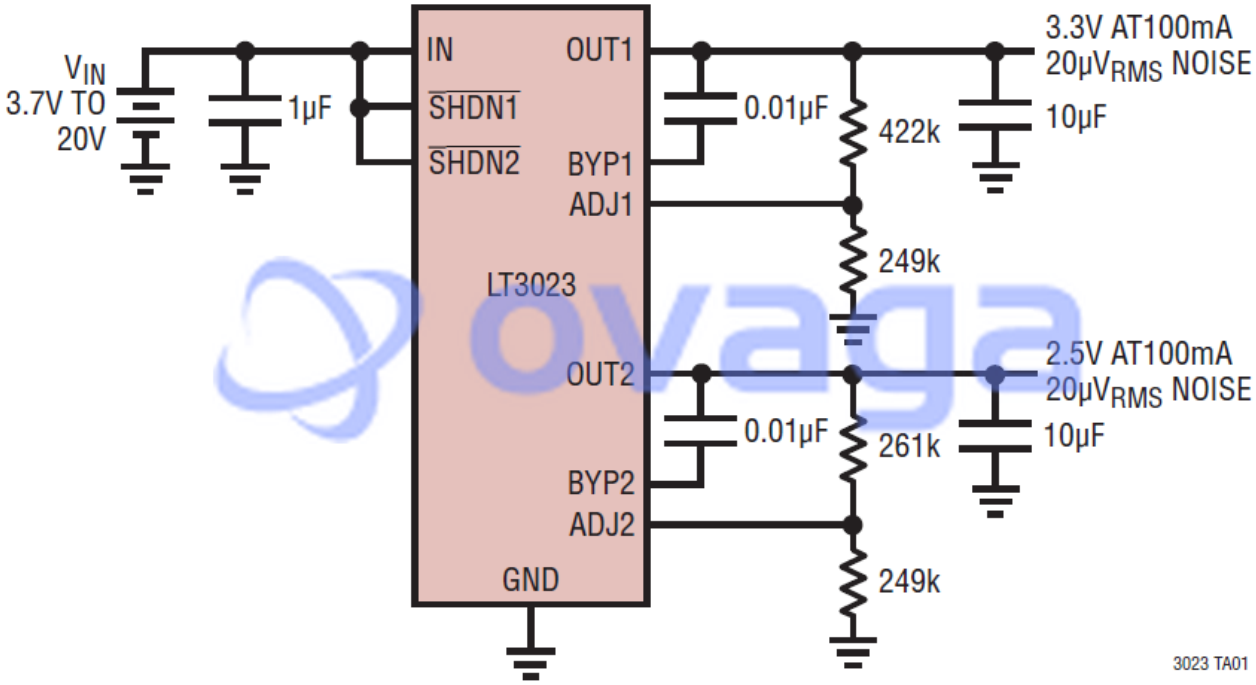
Pagers

Battery-Powered Systems

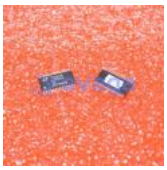
Frequency Synthesizers

Wireless Modems





Related Products



[LT3763EFE](#)

Analog Devices, Inc

TSSOP28

[LT1038CK](#)

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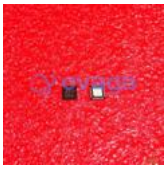
TO-3



[LTC4417IUF](#)

Analog Devices, Inc

QFN-24

[LTC3440EMS](#)

Analog Devices, Inc

MSOP10

[LTC1966CMS8#PBF](#)

Analog Devices, Inc

MSOP-8P

[LTC2990IMS#PBF](#)

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10MSOP

[LTM8045EY#PBF](#)

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BGA40

[LT4295IUFD#PBF](#)

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28-WFQFN