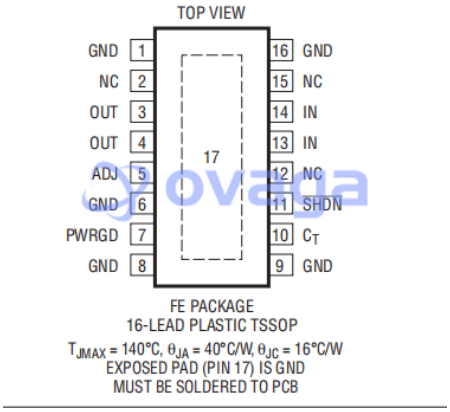
LT3013MPFE#PBF

Data Sheet

LDO Regulator Pos 1.24V to 60V 0.25A Automotive 16-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	16TSSOP
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3013MPFE#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT3013 is a high voltage, micropower low dropout linear regulator. The device is capable of supplying 250mA of output current with a dropout voltage of 400mV. Designed for use in battery-powered or high voltage systems, the low quiescent current (65µA operating and 1µA in shutdown) makes the LT3013 an ideal choice. Quiescent current is also well controlled in dropout.

Other features of the LT3013 include a PWRGD flag to indicate output regulation. The delay between regulated output level and flag indication is programmable with a single capacitor. The LT3013 also has the ability to operate with very small output capacitors. The regulator is stable with only 3.3µF on the output while most older devices require between 10µF and 100µF for stability. Small ceramic capacitors can be used without any need for series resistance (ESR) as is common with other regulators. Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting and reverse current protection.

The device is available with an adjustable output with a 1.24V reference voltage. The LT3013 regulator is available in the thermally enhanced 16-lead TSSOP and the low profile (0.75mm), 12 pin (4mm × 3mm) DFN package, both providing excellent thermal characteristics.

Shutdown PinLT3013YesLT3013B No

Features

Wide Input Voltage Range: 4V to 80V

Low Quiescent Current: 65µA

Low Dropout Voltage: 400mV

Output Current: 250mA

No Protection Diodes Needed

Adjustable Output from 1.24V to 60V

1µA Quiescent Current in Shutdown

Stable with 3.3µF Output Capacitor

Stable with Aluminum, Tantalum or Ceramic Capacitors

Reverse-Battery Protection

No Reverse Current Flow from Output to Input

Thermal Limiting

Thermally Enhanced 16-Lead TSSOP and 12 Pin (4mm × 3mm) DFN Package

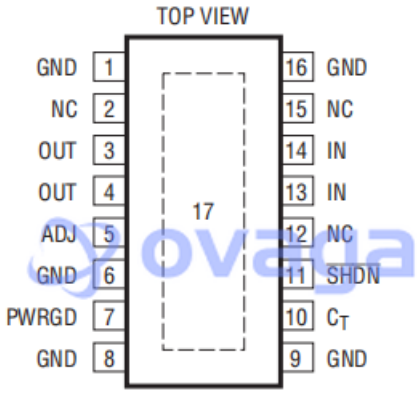
Application

Low Current High Voltage Regulators

Regulator for Battery-Powered Systems

Telecom Applications

Automotive Applications



FE PACKAGE
16-LEAD PLASTIC TSSOP

T_{JMAX} = 140°C, θ_{JA} = 40°C/W, θ_{JC} = 16°C/W
EXPOSED PAD (PIN 17) IS GND
MUST BE SOLDERED TO PCB

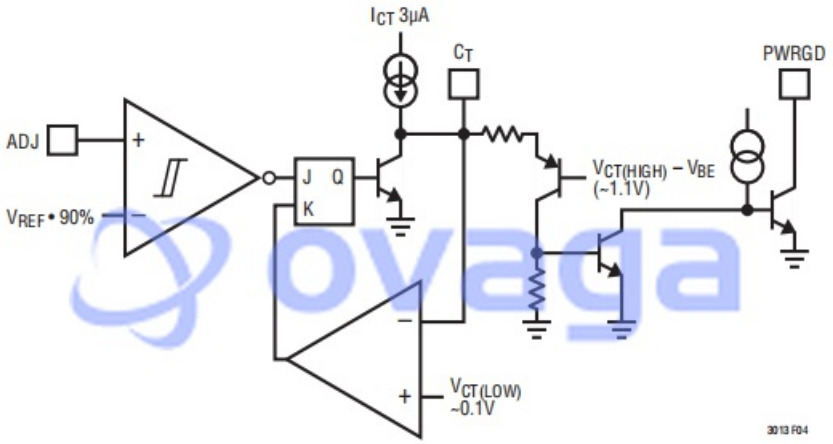
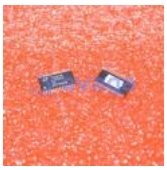


Figure 4. PWRGD Circuit Block Diagram

Related Products



[LT3763EFE](#)

Analog Devices, Inc

TSSOP28

[LT1038CK](#)

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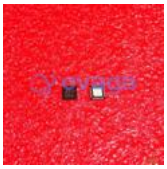
TO-3



[LTC4417IUF](#)

Analog Devices, Inc

QFN-24

[LTC3440EMS](#)

Analog Devices, Inc

MSOP10

[LTC1966CMS8#PBF](#)

Analog Devices, Inc

MSOP-8P

[LTC2990IMS#PBF](#)

Analog Devices, Inc

10MSOP

[LTM8045EY#PBF](#)

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BGA40

[LT4295IUFD#PBF](#)

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28-WFQFN