

LT3086MPFE#PBF

Data Sheet

 $40\mathrm{V}, 2.1\mathrm{A}$ Low Dropout Adjustable Linear Regulator with Monitoring and Cable Drop Compensation

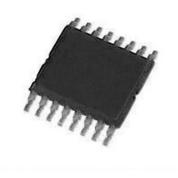
Manufacturers <u>Analog Devices, Inc</u>

Package/Case 16-Lead TSSOP w/ EP

Product Type Power Management ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for LT3086MPFE#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The LT3086 is a multi-feature, low dropout, low noise 2.1A linear regulator that operates over a 1.4V to 40V input supply range. Dropout voltage at 2.1A is typically 330mV. One resistor sets output voltage from 0.4V to 32V. Output voltage tolerance is guaranteed to $\pm 2\%$ over line, load and temperature. The LT3086 is stable with ceramic output capacitors, requiring a minimum of $10\mu F$.

The LT3086's programmable cable drop compensation cancels output voltage errors caused by resistive connections to the load. A master/slave configuration allows paralleling of multiple devices for higher load current and heat spreading without external ballast resistor requirements.

Output current and temperature monitoring along with a power good flag provide system diagnostic and debug capability. Internal fault circuitry includes thermal shutdown and current limit with foldback. Thermal limit and current limit are also externally programmable.

Packages include the thermally enhanced 16-lead (5mm × 4mm) DFN, 16-lead TSSOP, 7-lead DD-Pak and 7-lead TO-220.

Features

Wide Input Voltage Range: 1.4V to 40V

1 Resistor Sets Output Voltage: 0.4V to 32V

Output Current: 2.1A

Output Current Monitor:>

Temperature Monitor with Programmable Thermal Limit

Programmable Cable Drop Compensation

Parallel Multiple Devices for Higher Current

Dropout Voltage: 330mV

1 Capacitor Soft-Starts Output and Decreases Noise

Low Output Noise: 40µVRMS (10Hz to 100kHz)

Precision, Programmable External Current Limit

Power Good Flag with Programmable Threshold

Ceramic Output Capacitors: 10µF Minimum

Quiescent Current in Shutdown: <1 µA

Reverse-Battery, -Current and -Output Protection

Available in 5mm × 4mm 16-Lead DFN, 16-Lead TSSOP, 7-Lead DD-Pak and 7-Lead TO-220.

Related Products



LT3763EFE
Analog Devices, Inc
TSSOP28



LTC4417IUF

Analog Devices, Inc
QFN-24



Analog Devices, Inc MSOP-8P

LTC1966CMS8#PBF



Programmable Linear Regulator

Post Regulator for Switching Supplies

USB Power Supplies

High Reliability Power Supplies



LT1038CK
Analog Devices, Inc
TO-3



LTC3440EMS

Analog Devices, Inc
MSOP10



LTC2990IMS#PBF
Analog Devices, Inc
10MSOP



LTM8045EY#PBF
Analog Devices, Inc
BGA40



LT4295IUFD#PBF
Analog Devices, Inc
28-WFQFN