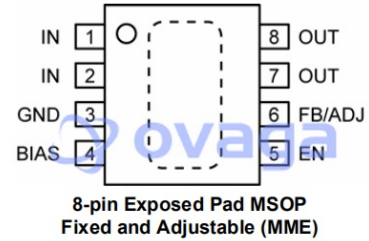


IC REG LDO ADJ 1A 8MSOP

Manufacturers	Microchip Technology, Inc
Package/Case	MSOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC47100YMME-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC47100 is a high speed, low VIN LDO capable of delivering up to 1A and designed to take advantage of point-of-load applications that use multiple supply rails to generate a low-voltage, high-current power supply. The MIC47100 is stable with only a 1 μ F ceramic output capacitor and is available in a thermally enhanced, making it an optimal solution for board-constrained applications.

The MIC47100 has an NMOS output stage offering very low output impedance. The NMOS output stage offers a unique ability to respond very quickly to sudden load changes such as that required by a microprocessor, DSP, or FPGA. The MIC47100 consumes little quiescent current and therefore can be used for driving the core voltages of mobile processors, post regulating a core DC/DC converter in any portable device.

The MIC47100 is available in fixed and adjustable output voltages in the ePad MSOP-8 package with an operating junction temperature range of -40°C to +125°C.

Features

Operating voltage range:

Input Supply: 1.0V to 3.6V

Bias Supply: 2.3V to 5.5V

0.8V to 2.0V output voltage range

High bandwidth: very fast transient response

PSRR >50dB at 100kHz

Stable with a 1 μ F ceramic output capacitor

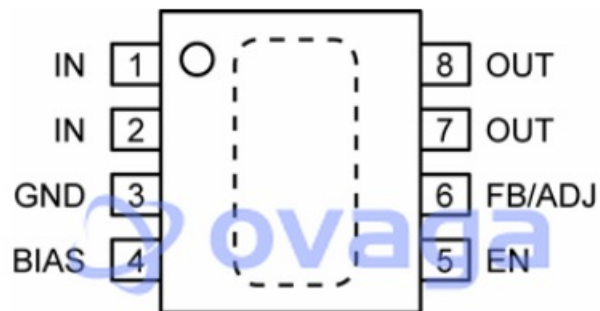
Low dropout voltage of 80mV at 1A

High output voltage accuracy:

Logic level enable input

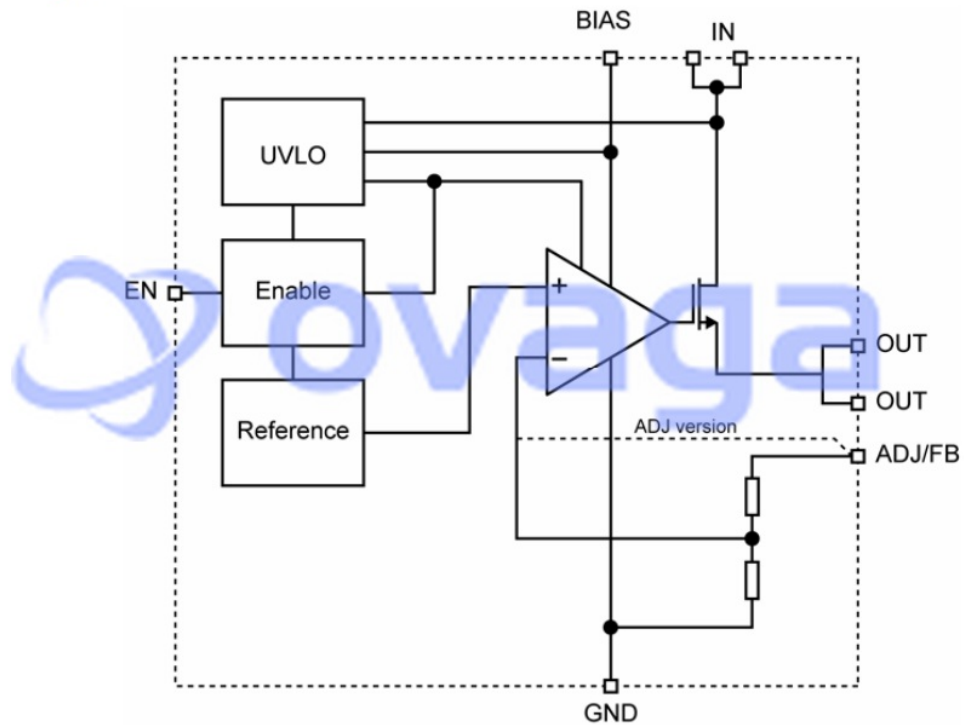
UVLO on both supply voltages for easy turn-on

ePad MSOP-8: small form factor power package



**8-pin Exposed Pad MSOP
Fixed and Adjustable (MME)**

Functional Diagram



Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



[MIC2009A-1YM6-TR](#)

Microchip Technology, Inc
SOT-23-6



[MIC2090-1YM5-TR](#)

Microchip Technology, Inc
SOT-23-5



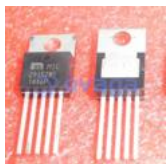
[MIC5841YWM-TR](#)

Microchip Technology, Inc
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[MIC5891YN](#)

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PDIP-16



[MIC29152WT](#)

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TO-220-5



[MIC5209YM](#)

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SOIC-8