

LDO Regulator Pos 1.24V to 16V 1A 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC39100, MIC39101, and MIC39102 are 1A low-dropout linear voltage regulators that provide low-voltage, high-current output from an extremely small package. Utilizing Micrel's proprietary Super beta PNP® pass element, the MIC39100/1/2 offers extremely low dropout (typically 410mV at 1A) and low ground current (typically 11mA at 1A).

The MIC39100 is a fixed output regulator offered in the SOT-223 package. The MIC39101 and MIC39102 are fixed and adjustable regulators, respectively, in a thermally enhanced power 8-lead SOIC package.

The MIC39100/1/2 is ideal for PC add-in cards that need to convert from standard 5V to 3.3V, 3.3V to 2.5V or 2.5V to 1.8V. A guaranteed maximum dropout voltage of 630mV over all operating conditions allows the MIC39100/1/2 to provide 2.5V from a supply as low as 3.13V and 1.8V from a supply as low as 2.43V.

The MIC39100/1/2 is fully protected with overcurrent limiting, thermal-shutdown, and reverse-battery protection. Fixed voltages of 5.0V, 3.3V, 2.5V, and 1.8V are available on MIC39100/1 with adjustable output voltages to 1.24V on MIC39102.

Key Features

Fixed and adjustable output voltages to 1.24V

410mV typical dropout at 1A

Ideal for 3.0V to 2.5V conversion

Ideal for 2.5V to 1.8V conversion

1A minimum guaranteed output current

1% initial accuracy

Low ground current

Current limiting and thermal shutdown

Reversed-battery protection

Reversed-leakage protection

Fast transient response

Low-profile SOT-223 package

Power SO-8 package

Recommended For You

MIC4451YN

Microchip Technology, Inc

DIP8

MIC4427YN

Microchip Technology, Inc

DIP8

MIC4427YM

Microchip Technology, Inc

SOP-8

MIC2954-02WS

Microchip Technology, Inc

SOT223

MIC2951-02YM

Microchip Technology, Inc

SOP-8

MIC4452ZT

Microchip Technology, Inc

TO-220-5

MIC5013YN

Microchip Technology, Inc

PDIP-8

MIC2582-MYM

Microchip Technology, Inc

SOP-8

MIC4224YM

Microchip Technology, Inc

SOP8

MIC4123YME

Microchip Technology, Inc

SOP-8

MIC2951-02YM-TR

Microchip Technology, Inc

SOIC-8

MIC4422ZM

Microchip Technology, Inc

SOP8

MIC49150WR

Microchip Technology, Inc

SPAK-5

MIC2506YM

Microchip Technology, Inc

SOP-8

MIC49300WR

Microchip Technology, Inc

S-PAK-5