

Low Dropout Regulators - LDO 1.0A 1.0% Fixed Voltage LDO in SOT223 Pkg(ROHS Compliant)

Manufacturers	Microchip Technology, Inc
Package/Case	SOT-223-3
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MIC39100-2.5WS or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

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.

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



Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



[MIC2009A-1YM6-TR](#)

Microchip Technology, Inc
SOT-23-6



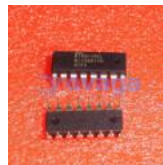
[MIC2090-1YM5-TR](#)

Microchip Technology, Inc
SOT-23-5



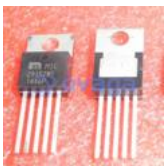
[MIC5841YWM-TR](#)

Microchip Technology, Inc
SOIC-18



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SOIC-8