

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

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOT-223-3
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MIC39100-3.3WS 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



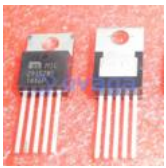
### [MIC2009A-1YM6-TR](#)

Microchip Technology, Inc  
SOT-23-6



### [MIC5841YWM-TR](#)

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SOIC-18



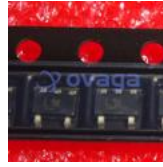
### [MIC29152WT](#)

Microchip Technology, Inc  
TO-220-5



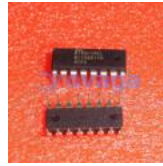
### [MIC4684YM](#)

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### [MIC2090-1YM5-TR](#)

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SOT-23-5



### [MIC5891YN](#)

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PDIP-16



### [MIC5209YM](#)

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