

Linear Voltage Regulator IC; Output Current Max:3A; Package/Case:3-TO-263; Current Rating:3A; Output Voltage Max:5V; Voltage Regulator Type:Low Dropout (LDO); Mounting Type:Through Hole RoHS Compliant: Yes

Manufacturers	<u>Microchip Technology, Inc</u>
Package/Case	TO-263-3
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MIC29300-5.0WU or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC29150/29300/29500/29750 are high-current, high-accuracy, low-dropout voltage regulators. Using proprietary Super beta PNP® process with a PNP pass element, these regulators feature 350mV to 425mV (full load) typical dropout voltages and very low ground current. Designed for high-current loads, these devices also find applications in lower current, extremely low dropout-critical systems, where their tiny dropout voltage and ground current values are important attributes.

The MIC29150/29300/29500/29750 are fully protected against overcurrent faults, reversed input polarity, reversed lead insertion, over-temperature operation, and positive and negative transient voltage spikes. Five-pin fixed voltage versions feature logic-level on/off control and an error flag which signals whenever the output falls out of regulation. Flagged states include low input voltage (dropout), output current limit, over-temperature shutdown, and extremely high voltage spikes on the input.

On the MIC29xx1 and MIC29xx2, the enable pin may be tied to VIN if it is not required for on/off control. The MIC29150/29300/29500 are available in 3-pin and 5-pin TO-220 and surface-mount TO-263 (D2Pak) packages.

The MIC29750 7.5A regulators are available in 3-pin and 5-pin TO-247 packages. The 1.5A, adjustable output MIC29152 is available in a 5-pin power D-Pak (TO-252) package.

For applications with an input voltage of 6V or below, see MIC37xxx LDOs.

Features

High current capability

MIC29300/29301/29302/29303: 3A

MIC29500/29501/29502/29503: 5A

MIC29750/29751/29752: 7.5A

Low dropout voltage

Low ground current

Accurate 1% guaranteed tolerance

Extremely fast transient response

Reverse-battery and load dump protection

Zero-current shutdown mode (5-pin versions)

Error flag signals output out-of-regulation (5-pin versions)

Also characterized for smaller loads with industry-leading performance specifications

Fixed voltage and adjustable versions



Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



[MIC2009A-1YM6-TR](#)

Microchip Technology, Inc
SOT-23-6



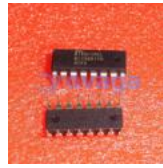
[MIC2090-1YM5-TR](#)

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[MIC5841YWM-TR](#)

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[MIC5891YN](#)

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