

LDO Regulator Pos 5V 0.15A Automotive 8-Pin SOIC N T/R

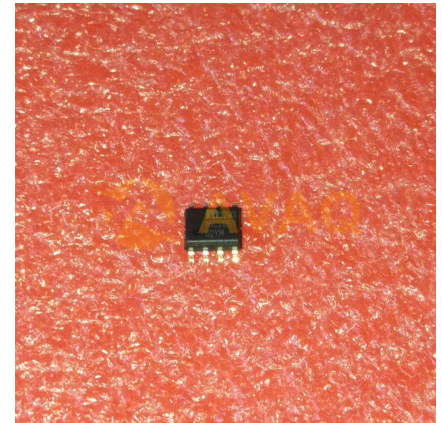
Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOIC-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The MIC2950 and MIC2951 are "bulletproof" micropower voltage regulators with very low dropout voltage (typically 40mV at light loads and 250mV at 100mA) and very low quiescent currents. Like their predecessors, the LP2950 and LP2951, the quiescent current of the MIC2950/MIC2951 increases only slightly in dropout, thus prolonging battery life. The MIC2950/MIC2951 are pin-for-pin compatible with the LP2950/LP2951, but offer lower dropout, lower quiescent current, reverse battery protection, and automotive load dump protection.

The key additional features and protection offered include higher output current (150mA), positive transient protection for up to 60V (load dump), and the ability to survive an unregulated input voltage transient of -20V below ground (reverse battery).

The plastic DIP and SOIC versions offer additional system functions such as programmable output voltage and logic-controlled shutdown. The 3-pin TO-92 MIC2950 is pin-for-pin compatible with the older 5V regulators.

These system functions also include an error flag output that warns of a low output voltage, which is often due to failing batteries on the input. This may also be used as a power-on reset. A logic-compatible shutdown input is also available that enables the regulator to be switched on and off. This part may also be pin-strapped for a 5V output or programmed from 1.24V to 29V with the use of two external resistors.

Key Features

High accuracy: 3.3V, 4.85V, or 5V with guaranteed 150mA output

Extremely low quiescent current

Low-dropout voltage

Extremely tight load and line regulation

Very low temperature coefficient

Use as regulator or reference

Needs only 1.5 μ F for stability

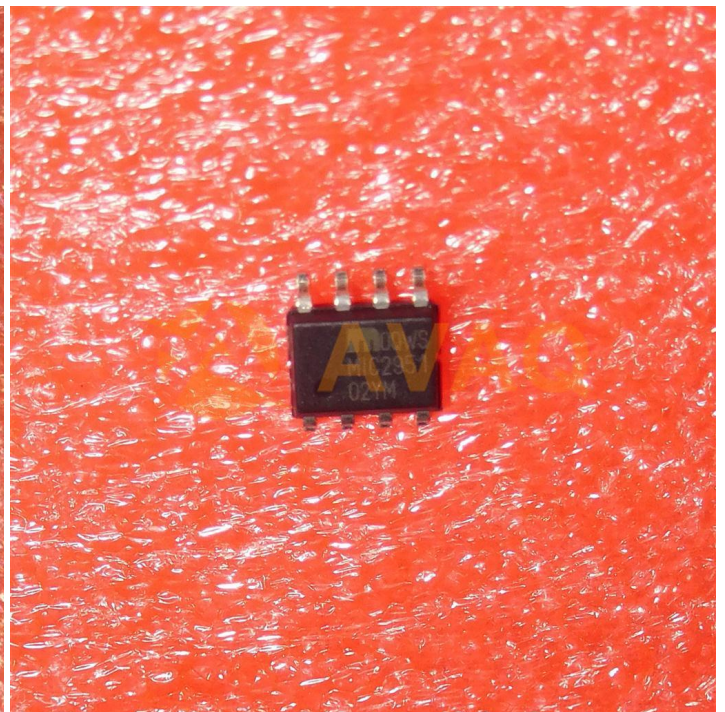
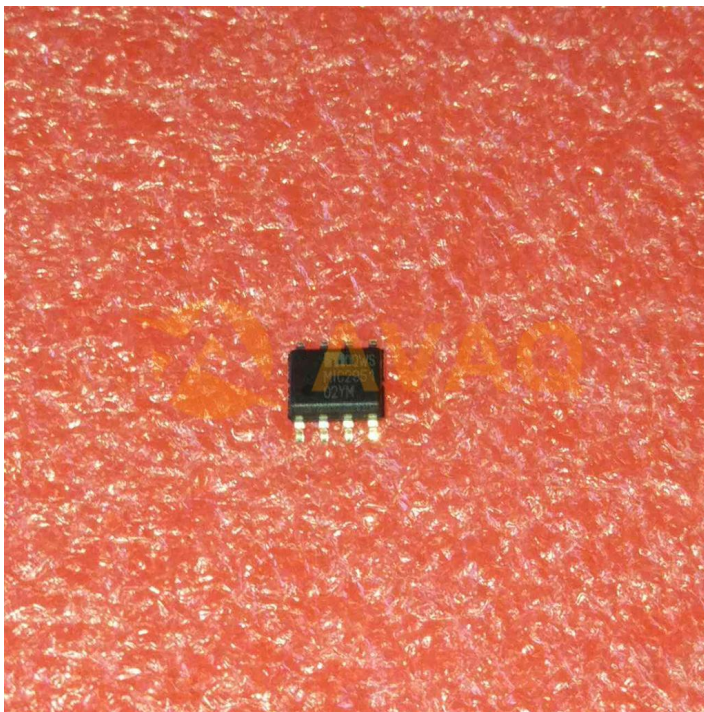
Current and thermal limiting

Unregulated DC input can withstand -20V reverse battery and +60V positive transients

Error flag warns of output dropout (MIC2951)

Logic-controlled electronic shutdown (MIC2951)

Output programmable from 1.24V to 29V (MIC2951)



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

MIC4422ZM

Microchip Technology, Inc
SOP8

MIC49150WR

Microchip Technology, Inc
SPAK-5

MIC2506YM

Microchip Technology, Inc
SOP-8

MIC49300WR

Microchip Technology, Inc
S-PAK-5

MIC94082YFT-TR

Microchip Technology, Inc
TMLF-4