

LDO Regulator Pos 1.24V to 29V5V 0.25A 8-Pin SOIC N Tube



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[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC2954 is a "bulletproof", efficient voltage regulator with very low dropout voltage (typically 40mV at light loads and 375mV at 250mA) and low quiescent current (120 μ A typical). The quiescent current of the MIC2954 increases only slightly in dropout, thus prolonging battery life. Key MIC2954 features include protection against reversed battery, fold-back current limiting, and automotive load-dump protection (60V positive transient).

The MIC2954-07/08BM is an adjustable version that includes 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 provided which enables the regulator to be switched on and off.

This part may be pin-strapped for 5V output or programmed from 1.24V to 29V with the use of two external resistors.

The MIC2954 is available in two voltage tolerances, $\pm 0.5\%$ maximum and $\pm 1\%$ maximum. Both are guaranteed for junction temperatures from -40°C to $+125^{\circ}\text{C}$.

The MIC2954 has a very low output voltage temperature coefficient and extremely good load and line regulation (0.04% typical).

Key Features

High-accuracy: 5V, guaranteed 250mA output

Low quiescent current

Low dropout voltage

Extremely tight load and line regulation

Very low temperature coefficient

Current and thermal limiting

Input can withstand -20V reverse battery and +60V positive transients

Error flag warns of low output voltage

Logic-controlled electronic shutdown

Output programmable from 1.24V to 29V (MIC2954-07/08)

Available in TO-220, TO-92, and surface-mount SOT-223 and SOP-8 packages

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

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S-PAK-5