


LDO Regulator Pos 5V 0.25A 4-Pin(3+Tab) SOT-223 Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOT223
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

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 (120µA 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, ±0.5% maximum and ±1% maximum. Both are guaranteed for junction temperatures from -40°C to +125°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

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

Microchip Technology, Inc
S-PAK-5

MIC94082YFT-TR

Microchip Technology, Inc
TMLF-4