

LDO Regulator Pos 0.9V to 5V 3A 6-Pin(5+Tab) SPAK Tube

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: S-PAK-5

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

MIC49300WR Image

Images are for reference only

[Inquiry](#)

General Description

The MIC49300 is a high-bandwidth, low-dropout, 3.0A voltage regulator ideal for powering core voltages of low-power microprocessors. The MIC49300 implements a dual supply configuration allowing for very low output impedance and very fast transient response.

The MIC49300 requires a bias input supply and a main input supply, allowing for ultra-low input voltages on the main supply rail. The input supply operates from 1.4V to 6.5V and the bias supply requires between 3V and 6.5V for proper operation. The MIC49300 offers fixed output voltages from 0.9V to 1.8V and adjustable output voltages down to 0.9V.

The MIC49300 requires a minimum of output capacitance for stability, working optimally with small ceramic capacitors.

The MIC49300 is available in a 5-pin S-Pak. It operates over a junction temperature range of -40°C to +125°C.

Key Features

Input voltage range:

VIN: 1.4V to 6.5V

VBIAS: 3.0V to 6.5V

Stable with 1 μ F ceramic capacitor

Maximum dropout voltage (VIN-VOUT) of 500mV over temperature

Adjustable output voltage down to 0.9V

Ultra-fast transient response (Up to 10MHz bandwidth)

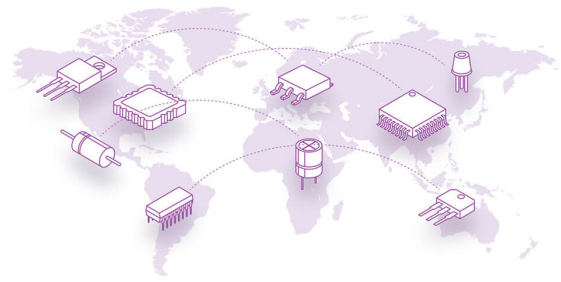
Excellent line and load regulation specifications

Logic controlled shutdown option

Thermal shutdown and current limit protection

Power S-Pak package

Junction temperature range: -40°C to +125°C



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

MIC94082YFT-TR

Microchip Technology, Inc

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