

IC REG LDO ADJ 1.5A 8MSOP

Manufacturers	Microchip Technology, Inc
Package/Case	MSOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC49150YMM-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC49150 is a high-bandwidth, low-dropout, 1.5A voltage regulator ideal for powering core voltages of low power microprocessors. The MIC49150 implements a dual supply configuration allowing for very low output impedance and very fast transient response.

The MIC49150 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 MIC49150 offers fixed output voltages from 0.9V to 1.8V and adjustable output voltages down to 0.9V.

The MIC49150 requires a minimum of output capacitance for stability, working optimally with small ceramic capacitors.

The MIC49150 is available in an 8-pin power MSOP package and a 5-pin S-Pak. Its operating temperature range is -40°C to +125°C.

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 MSOP-8 and S-Pak packages

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

(1P) CATALOG P/N: MIC49150YMM-TR



(1T) LOT NO.: 211400096300STAR



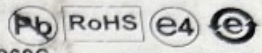
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MPC: 26801YDMAB13



SEAL DATE : 12/14/20
WAFER QTY: -
WAFER REV: -
RECERT D/C: -
WAFER LOT: -



MSL: 1/260C
PKG: MSOP
LEAD: 8

(Q) QTY
2500



D/C	QTY
2027	2500

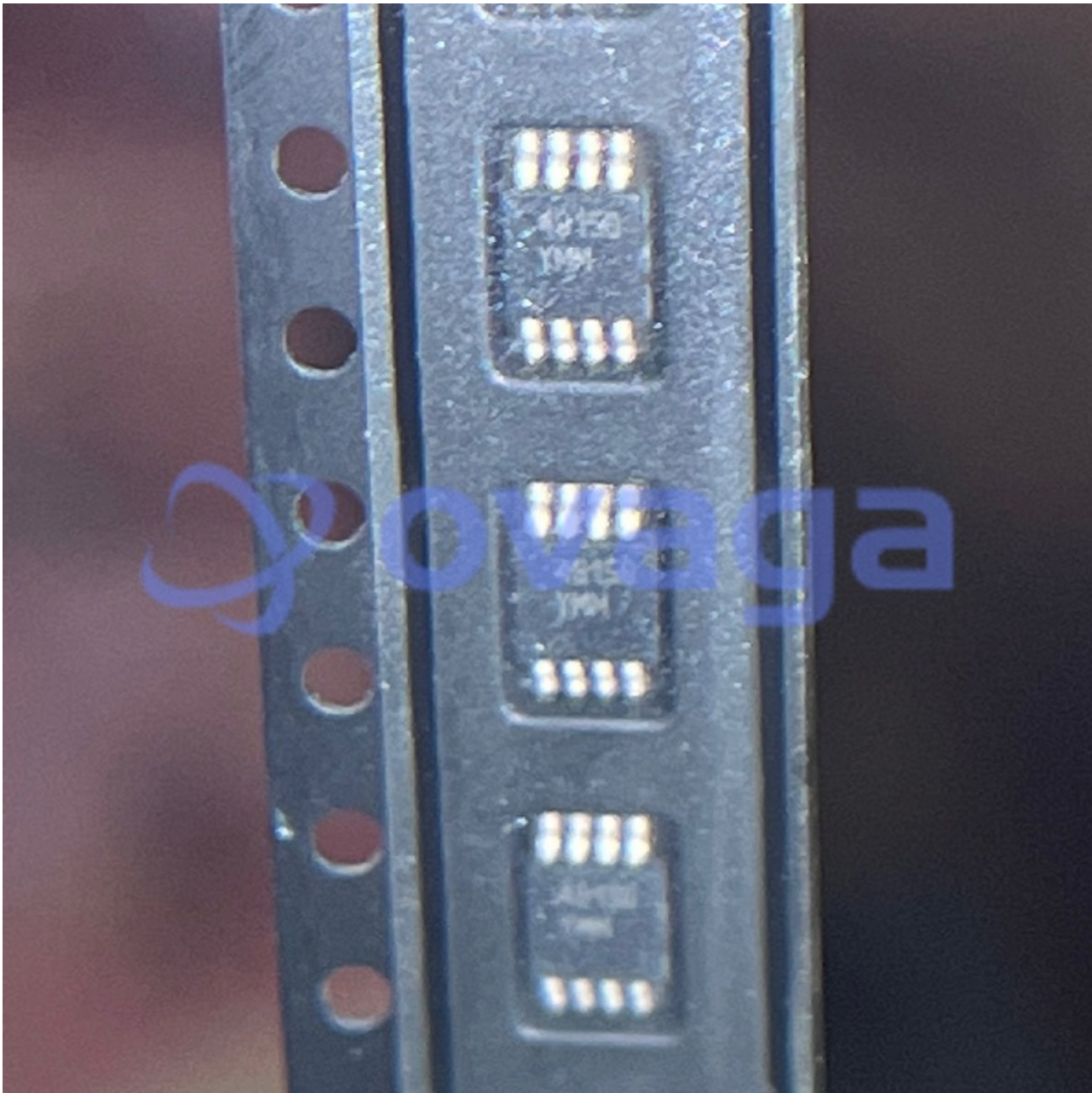
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S-4



MADE IN THAILAND



Related Products



[MIC94325YMT-TR](#)

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UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



[MIC2009A-1YM6-TR](#)

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SOT-23-6



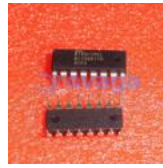
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Microchip Technology, Inc
SOT-23-5



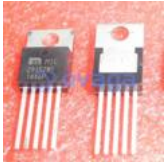
[MIC5841YWM-TR](#)

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SOIC-18



[MIC5891YN](#)

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[MIC29152WT](#)

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