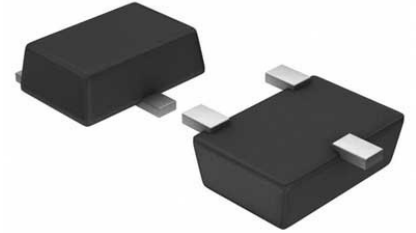


LDO Regulator Pos 3.3V 0.15A Automotive 5-Pin SOT-23 T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOT23-5

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MCP1754/MCP1754S is a 16 volt, high PSRR voltage regulator with short circuit current foldback. The MCP1754/MCP1754S regulator provides up to 150 mA of current. The input operating voltage range is specified from 3.6V to 16V continuous, 18V absolute maximum, making it ideal for automotive and commercial 12 VDC systems. The MCP1754/MCP1754S typically delivers 72 dB of ripple rejection at 1 kHz, performing well in AC sensitive applications like GFCI and AFCI circuit breaker designs. The Current Foldback feature is a true short circuit current foldback: the device current will gradually drop to 30 mA under short circuit conditions. When the short is removed, the device will recover and continue operating.

Key Features

High PSRR: 72 dB @1 kHz Typical

Low 56.0 μ A Typical Quiescent Current

Wide Input Operating Voltage Range: 3.6V to 16.0V

150 mA Output Current for All Output Voltages

Low Drop Out Voltage, 300 mV Typical at 150 mA

0.4% Typical Output Voltage Regulation

Standard Output Voltage Options (1.8V, 2.5V, 3.0V, 3.3V, 5.0V), Additional Options Available on Request

Output Voltage Tolerances of $\pm 2.0\%$ Over Entire Temperature Range

Stable with Minimum 1.0 μ F Output Capacitance

Power Good Output

Shutdown Input

True Current Foldback Protection

Short-Circuit Protection

Overtemperature Protection

ESD protection (>4 kV HBM)

Recommended For You

MCP1416T-E/OT

Microchip Technology, Inc

SOT23-5

MCP1825S-1802E/DB

Microchip Technology, Inc

SOT-223

MCP1525T-I/TT

Microchip Technology, Inc

SOT23-3

MCP73831T-2ACI/OT

Microchip Technology, Inc

SOT23-5

MCP1253-ADJI/MS

Microchip Technology, Inc

MSOP8

MCP1700-3302E/TO

Microchip Technology, Inc

TO-92

MCP73832T-2AII/OT

Microchip Technology, Inc

SOT23-5

MCP120-450DI/TO

Microchip Technology, Inc

TO-92

MCP1525-I/TO

Microchip Technology, Inc

TO92

MCP1541T-I/TT

Microchip Technology, Inc

SOT23-3

MCP73831T-2DCI/OT

Microchip Technology, Inc

SOT23-5

MCP16311T-E/MS

Microchip Technology, Inc

MSOP8

MCP16331T-E/CH

Microchip Technology, Inc

SOT23-6

MCP1754ST-5002E/CB

Microchip Technology, Inc

SOT-23

MCP1754ST-3302E/CB

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SOT-23