

LDO Regulator



Listing details

Reference Number: RF412281

Common

Price: \$ 1,150.00
Country: United States
Description:
LDO Regulator Pos 6V 0.15A 5-Pin SOT-23 T/R

Manufacturer Part #: MCP1801T-6002I/OT

Alternate Part #: MCP1801T-6002I/OT

Details:

The MCP1801 is a family of CMOS low dropout (LDO) voltage regulators that can deliver up to 150 mA of current while consuming only 25 μ A of quiescent current (typical).

The input operating range is specified from 2.0V to 10.0V, making it an ideal choice for two to six primary cell battery-powered applications, 9V alkaline and one or two cell Li-Ion-powered applications.

The LDO output is stable with a minimum of 1 μ F of output capacitance. Ceramic, tantalum, or aluminum electrolytic capacitors can all be used for input and output. Overcurrent limit with current foldback provides short-circuit protection.

Key Features:

150 mA Maximum Output Current
Low Dropout Voltage, 200 mV typical @ 100 mA
25 μ A Typical Quiescent Current
0.01 μ A Typical Shutdown Current
Input Operating Voltage Range: 2.0V to 10.0V
Standard Output Voltage Options: - 0.9V, 1.2V, 1.8V, 2.5V, 3.0V, 3.3V, 5.0V, 6.0V

Output Voltage Accuracy: - $\pm 2\%$ (VR > 1.5V), ± 30 mV (VR \leq 1.5V)

Stable with Ceramic Output Capacitors

Current Limit Protection

Shutdown Pin

High PSRR: 70 dB typical @ 10 kHz

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7 years ago

