

Low Quiescent Current LDO, -40C to +125C, 3-SOT-23, T/R,Low Dropout (LDO) Regulators 250mA Adj LDO 2%

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOT-23-3
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MCP1700T-3002E/TT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MCP1700 is a CMOS low dropout positive voltage regulator which can source up to 250mA of current with an extremely low input-output voltage differential of 178mV at 250mA. The low dropout voltage combined with the low current consumption of only 1.6µA makes this part ideal for battery operation. The low voltage differential (dropout voltage) extends battery operating lifetime. The MCP1700 is stable with 1.0µF ceramic output capacitor. It also permits high currents in small packages when operated with minimum VIN – VOUT differentials. The circuit also incorporates short-circuit protection & over temperature protection to ensure maximum reliability.

## Features

Extremely Low Operating Current for Longer Battery Life (1.6 uA typical)

Very Low Dropout Voltage (178 mV at full load)

Rated 250mA Output Current

High Output Voltage Accuracy (±0.4% typical)

Over-Current and Over-Temperature Protection

Pin Compatible Upgrade for Bipolar Regulators & TC55 with Vin Max <6V

Requires only 1 µF Ceramic Output Capacitance



## Related Products



### [MCP1725-3302E/MC](#)

Microchip Technology, Inc  
DFN-8



### [MCP1702T-2502E/CB](#)

Microchip Technology, Inc  
SOT-23A-3



### [MCP1702T-5002E/CB](#)

Microchip Technology, Inc  
SOT-23



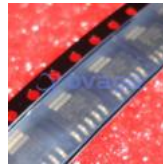
### [MCP1700T-2502E/TT](#)

Microchip Technology, Inc  
SOT-23-3



[MCP73830T-2AAI/MYY](#)

Microchip Technology, Inc  
TDFN-6



[MCP1826T-ADJE/DC](#)

Microchip Technology, Inc  
SOT-223-5



[MCP1703T-5002E/CB](#)

Microchip Technology, Inc  
SOT-23A-3



[MCP1703-5002E/DB](#)

Microchip Technology, Inc  
SOT-223-3