MCP1252-33X50I/MS

Data Sheet

Low Noise, Positive-Regulated Charge Pump,Charge Pumps 120mA Regulated

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

Images are for reference only

Please submit RFQ for MCP1252-33X50I/MS or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The MCP1252-33X50 and MCP1252-ADJ are inductorless, positive regulating, low noise charge pump DC-to-DC converters. The MCP1252-33X50 has selectable outputs of either 3.3 or 5.0 V, while the MCP1252-ADJ has an adjustable output between 1.5 and 5.5 V. Both can deliver 120 mA of load current at the selected regulated output voltage. Since the device incorporates an automatic buck/boost feature, it will maintain the regulated output voltage whether the input voltage is above or below the output voltage. These charge pumps operateat a switching frequency of 650 kHz, and feature power saving shutdown pins, short circuit protection, thermal shutdown, and power-good pins that report out-of-regulation conditions.

Features

Wide 2.1 to 5.0V input range

Fixed, regulated 3.3 V, 5.0 V, or adjustable (1.5 to 5.5 V) outputs

Supplies regulated output voltages for up to 120 mA loads

Low 60 μA supply current in no load conditions

High 2.5% voltage accuracy (on fixed voltage outputs)

High 650 kHz operation to aoivd interference with IF bands

Logic level shutdown control reduces current consumption to 0.1 μA during standby operation

Power-good output indicator with hysteresis

Thermal shutdown protection with hysteresis

Short circuit protection

Soft-start circuitry to minimize inrush current

Related Products

[MCP1725-3302E/MC](#)

Microchip Technology, Inc

DFN-8

[MCP1702T-2502E/CB](#)

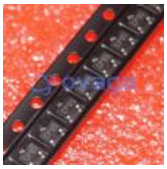
Microchip Technology, Inc

SOT-23A-3

[MCP1702T-5002E/CB](#)

Microchip Technology, Inc

SOT-23



[MCP1700T-2502E/TT](#)

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SOT-23-3

[MCP1700T-3002E/TT](#)

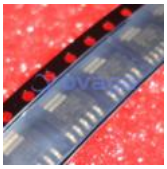
Microchip Technology, Inc

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