

MP1410

2A Step Down DC to DC Converter

MP1410 Rev 1.6_07/25/03 1

MPS

General Description

The MP1410 is a monolithic step down switch mode regulator with a built in internal Power MOSFET. It achieves 2A continuous output current over a wide input supply range with excellent load and line regulation.

Current mode operation provides fast transient response and eases loop stabilization.

Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown. In shutdown mode the regulator draws 25 μ A of supply current.

The MP1410 requires a minimum number of readily available standard external components.

Ordering Information

Part Number * Package Temperature

MP1410ES SOIC8 -20 to +85 °C

MP1410EP PDIP8 -20 to +85 °C

EV0012 Evaluation Board

* For Tape & Reel use suffix - Z (e.g. MP1410ES-Z)

Features

- 2A Output Current
- 0.22 Ω Internal Power MOSFET Switch
- Stable with Low ESR Output Ceramic capacitors
- Up to 95% Efficiency
- 20 μ A Shutdown Mode
- Fixed 380KHz frequency
- Thermal Shutdown
- Cycle-by-cycle over current protection
- Wide 4.75 to 15V operating input range
- Output Adjustable from 1.22 to 13V
- Programmable under voltage lockout
- Available in 8 pin SO

Evaluation Board Available

Applications

- PC Monitors
- Distributed Power Systems
- Battery Charger
- Pre-Regulator for Linear Regulators