
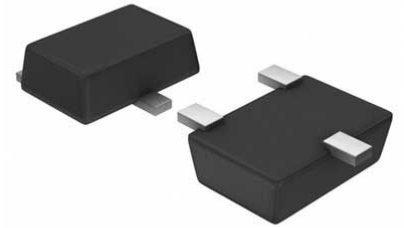


3A 5.5V 1.2MHz 40uA IQ COT Synchronous Step Down Switcher

Manufacturer:	<u>Monolithic Power Systems</u>
Package/Case:	SOT23-8
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MP2143 is a monolithic, step-down, switch-mode converter with internal power MOSFETs. It can achieve up to 3A continuous output current from a 2.5V-to-5.5V input voltage with excellent load and line regulation. The output voltage can be regulated as low as 0.6V. Constant-on-time control provides fast transient response and eases loop stabilization. Fault-condition protections include cycle-by-cycle current limiting and thermal shutdown. The MP2143 is available in small TSOT23-8 package and requires only a minimal number of readily-available standard external components. The MP2143 is ideal for a wide range of applications including high-performance DSPs, FPGAs, smartphones, portable instruments, and DVD drivers.

Key Features

- Wide 2.5V-to-5.5V Operating Input Range
- Output Voltage as Low as 0.6V
- 100% Duty Cycle in Dropout
- Up to 3A Output Current
- Low IQ: 40 μ A
- 80m Ω and 40m Ω Internal Power MOSFET Switches
- Default 1.2MHz Switching Frequency
- EN and Power-Good for Power Sequencing
- Cycle-by-Cycle Over-Current Protection
- Auto Discharge at Power Off
- Short-Circuit Protect with Hiccup Mode
- Stable with Low-ESR Output Ceramic Capacitors
- Available in a TSOT23-8 Package

Recommended For You

MP8007HGV-Z

Monolithic Power Systems
QFN

MP20073DH-LF-Z

Monolithic Power Systems
MSOP-8

MP2144GJ-Z

Monolithic Power Systems
SOT23-8

MP2459GJ-P

Monolithic Power Systems
SOT23-6

MP5073GG-Z

Monolithic Power Systems
QFN

MPQ9841GLE-AEC1-P

Monolithic Power Systems
BGA

MP6211DH-LF-Z

Monolithic Power Systems
MSOP8

MP171AGS-P

Monolithic Power Systems
8-SOIC

MP6925GS-P

Monolithic Power Systems
BGA

MP2723GQC-0000-P

Monolithic Power Systems
26-QFN3.5x3.5

MP8001DS-LF-Z

Monolithic Power Systems
SOP-8

MP4078GS-P

Monolithic Power Systems
8-SOIC

MP8009GV-Z

Monolithic Power Systems
QFN28

MP8004GQW-Z

Monolithic Power Systems
QFN20

MP8001DS-LF

Monolithic Power Systems
SOP-8