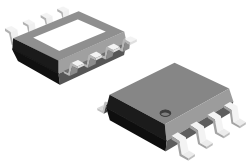
3A, 23V Synchronous Step-Down DC-DC Converter TJ54336

FEATURES

- 3A Continuous Output Current
- Wide 4.75V to 23V Operating Input Range
- Integrated 100mΩ and 85mΩ Power MOSFET Switches
- Output Adjustable from 0.925V to 12V
- Up to 95% Efficiency
- Current Mode Control
- Programmable Soft-Start
- Stable with Low ESR Ceramic Capacitor
- Automatic Pulse Skipping for Light Load Efficiency
- Fixed 340kHz Frequency
- Very Small Supply Current in Shutdown Mode
- Cycle-by-cycle Over Current protection
- Input Under Voltage Lockout
- Over Voltage Protection
- Short Circuit Protection
- Over Temperature Protection
- 8 Pin Exposed Thermal Pad SOP Package



SOP8-PP

ORDERING INFORMATION

Device	Package
TJ54336GDP	SOP8-PP

* For the details, see ordering information.

APPLICATIONS

- Digital TV, LCD Display, Projectors
- Set Top Box (STB, DVD/Blu-ray Player)
- Distributed Power Systems
- Networking Systems
- FPGA, DSP, ASIC Power Supplies
- Green Electronics/ Appliances

DESCRIPSION

The TJ54336 is a synchronous buck converter with an input voltage range of 4.75V to 23V. The device has an integrated 100mΩ high-side and 85mΩ low-side MOSFET switches that provide 3A of continuous load current and eliminates the need for an external diode which reduces component count.

Current mode control provided fast transient response, cycle-by-cycle current limit and excellent output voltage regulation. It is stable with low ESR output ceramic capacitors.

This device provides accurate regulation for a variety of loads with a well-regulated voltage reference. Efficiency is maximized by integrated switches, low IQ, and automatic pulse skipping at light loads.

The TJ54336 is equipped with adjustable soft start and protection functions for various conditions such as over voltage, under voltage, over current, short circuit and over temperature.

The TJ54336 is available in SOP-8 exposed thermal pad package.

Please contact us for more information about this product.