

24V, 3A, 340KHz Synchronous Step-Down DC/DC Converter

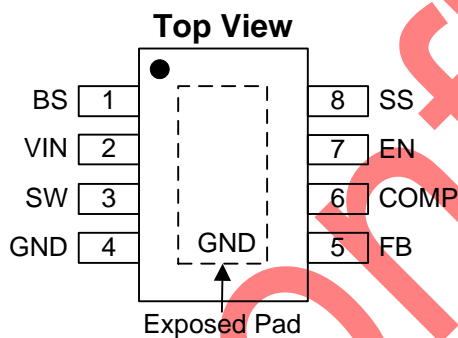
General Description:

The AN6407 is a synchronous step-down DC/DC converter that provides wide 4.5V to 24V input voltage range and 3A continuous load current capability.

Fault protection includes cycle-by-cycle current limit, input UVLO, output over voltage protection and thermal shutdown. Besides, adjustable soft-start function prevents inrush current at turn-on. This device uses current mode control scheme that provides fast transient response. In shutdown mode, the supply current is about 10uA.

The AN6407 is available in an 8-pin SOIC package, provides a very compact system solution and good thermal conductance.

Pin Configuration:



Features:

- Wide Input Voltage from 4.5V to 24V
- 3A Output Current
- Adjustable Output Voltage from 0.925V to 20V
- 85mΩ integrated Power MOSFET
- High Efficiency Up to 95%
- Fixed 340KHz Switching Frequency
- Current Mode Operation
- Adjustable Soft-Start
- Cycle-by-Cycle current limit
- Input Under Voltage Lockout
- Over-Temperature Protection
- Thermal Enhanced SOP-8 Package
- RoHS Compliant

Application:

- Set-Top-Box
- DVD, LCD Displays
- OLPC, Netbook
- Distributed Power System
- Datacom, XDSL

Ordering Information:

Part Number	Package	Shipment
AN6407-ASB	SOP8-EP	Tape&Reel / 2500

- A : Output Voltage Adjustable
- SB : Package Type ESOP-8L