

36V, 3A, 250KHz Synchronous Step-Down DC/DC Converter

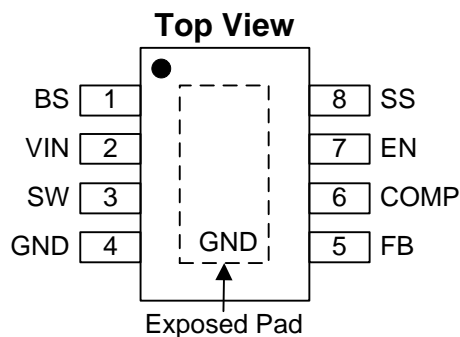
General Description

The AN6403 is a synchronous step-down DC/DC converter that provides wide 4.6V to 36V 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 less than 1uA.

The AN6403 is available in an SOP8-EP package, provides a very compact system solution and good thermal conductance.

Pin Configuration



Ordering Information

Part Number	Package	Shipment
AN6403-ASB	SOP8-EP	Tape & Reel / 2500

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

Features

- Wide Input Voltage from 4.6V to 36V
- 3A Output Current
- Adjustable Output Voltage from 0.8V to 28V
- High Efficiency Up to 95%
- Fixed 250KHz 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
- Distributed Power System
- Datacom, XDSL
- Pre-Regulator for Linear Regulators