

## 40V, 3A, 350KHz Synchronous Step-Down DC/DC Converter

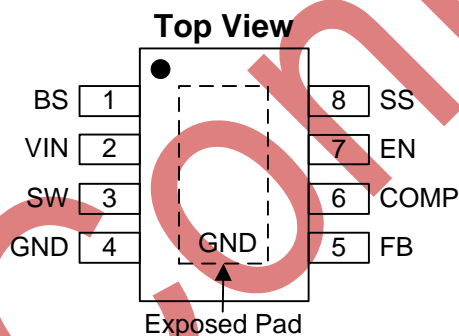
### General Description

The AN6402 is a synchronous step-down DC/DC converter that provides wide 4.8V to 40V 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 AN6402 is available in an SOP8-EP package, provides a very compact system solution and good thermal conductance.

### Pin Configuration



### Features

- Wide Input Voltage from 4.8V to 40V
- 3A Output Current
- Adjustable Output Voltage from 1V to 25V
- High Efficiency Up to 93%
- Fixed 350KHz 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

### Ordering Information

Part Number	Package	Shipment
AN6402-ASB	SOP8-EP	Tape & Reel / 2500

\*A: Output Voltage Adjustable

\*SB: SOP8-EP