

1MHz Step-Up PWM Converter with 5.5A Switch Current

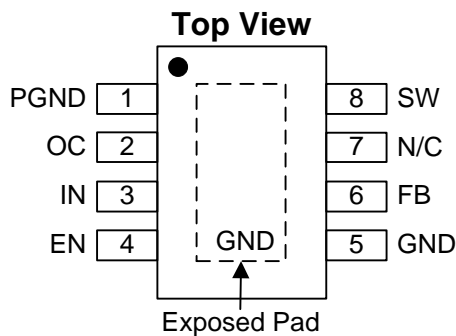
General Description

The AN3202 is a current-mode boost DC/DC converter with a 5.5A, 0.1Ω internal power MOSFET to provide this regulator highly power efficient. The AN3202 operates at 1MHz allowing for easy filtering and low noise. Internal compensation makes the user to set system easily, which allows the use of small, low-ESR ceramic output capacitors.

Fault protection includes over-current latch off, input UVLO and thermal shutdown. This device uses current mode control scheme that provides fast transient response. In shutdown mode, the supply current is less than 1uA.

The AN3202 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
AN3202-ASB	SOP8-EP	Tape & Reel / 2500

*AN3202: 5.5A

*A: Output Voltage Adjustable

*SB: SOP8-EP

Features

- Adjustable Output Voltage up to 12V
- Internal 0.1Ω, 5.5A, 18V Power MOSFET
- Internal Soft-Start
- Fixed 1MHz Switching Frequency
- Current Mode Operation
- 12V Output at 1A from 5V Input for AN3202
- Cycle-by-Cycle current limit
- Adjustable Over Current Protection
- Input Under Voltage Lockout
- Over-Temperature Protection
- Thermal Enhanced SOP-8 Package
- RoHS Compliant

Application

- LCD Displays
- Chargers
- Portable Products
- Digital Cameras
- Handheld Computers and PADs