

### 1.25MHz, 2A, High Efficiency PWM Step-Down DC/DC Converter

#### General Description:

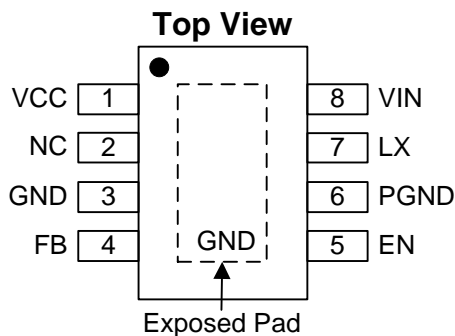
AN6012 is a high efficiency step-down DC/DC converter operated with the current mode and the constant frequency. The internal switch and synchronous rectifier are integrated for high efficiency. AN6012 can supply 2A of load current from 2.7V to 5.5V supply voltage.

The switching frequency is set at 1.25MHz, allowing the use of small surface mount inductors and capacitors. It can run 100% duty cycle for low dropout application. AN6012 is available in a SOP-8 package.

#### Features:

- 2.7V to 5.5V Input Voltage Range
- High Efficiency: Up to 95%
- 1.25MHz Constant Switching Frequency
- 2A Available Load Current
- 100% Duty Cycle in Dropout
- Current Mode Control
- Short Circuit Protection
- Thermal Shutdown Protection
- Thermal Enhanced SOP-8 Package

#### Pin Configuration:



#### Application:

- Set Top Box
- LCD TV
- ASIC/DSP/μP/FPGA Core and I/O Voltages
- Access-Point Router
- Cellular Base Stations
- Networking and Telecommunications

#### Ordering Information:

Part Number	Package	Shipment
AN6012-ASB	SOP-EP	Tape&Reel / 2500

- A : Output Voltage Adjustable
- SB : SOP8-EP