

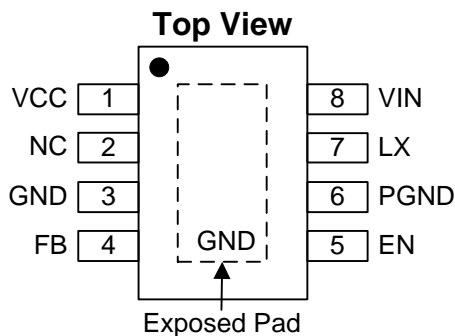
### 1.25MHz, 3A, High Efficiency PWM Step-Down DC/DC Converter

#### General Description:

AN6013 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. AN6013 can supply 3A 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. AN6013 is available in a SOP-8 package.

#### Pin Configuration:



#### Features:

- 2.7V to 5.5V Input Voltage Range
- High Efficiency: Up to 95%
- 1.25MHz Constant Switching Frequency
- 3A Available Load Current
- 100% Duty Cycle in Dropout
- Current Mode Control
- Short Circuit Protection
- Thermal Shutdown Protection
- Thermal Enhanced SOP-8 Package

#### 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
AN6013-ASB	SOP-EP	Tape&Reel / 2500

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