

4A, 2MHz, High Efficiency PWM Step-Down DC/DC Converter

General Description:

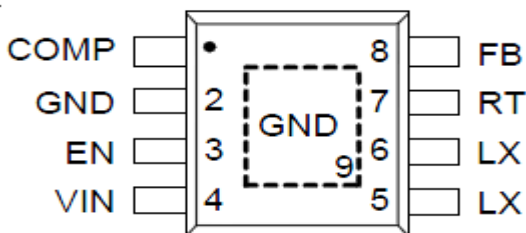
The AN6074 is a high efficiency synchronous, step-down DC/DC converter. Its input voltage range is from 2.7V to 5.5V and provides an adjustable regulated output voltage from 0.8V to 5V while delivering up to 4A of output current.

The internal synchronous low on-resistance power switches increase efficiency and eliminate the need for an external Schottky diode. The switching frequency can be varied from 300kHz to 2MHz by changing an external resistor. Current mode operation with external compensation allows the transient response to be optimized over a wide range of loads and output capacitors.

The AN6074 operates in forced continuous PWM Mode, which minimizes ripple voltage and reduces the noise and RF interference.

Pin Configuration:

(TOP VIEW)



SOP-8 (Exposed Pad)

Features:

- 2.7V to 5.5V Input Voltage Range
- High Efficiency: Up to 95%
- Adjustable Frequency : 300kHz to 2MHz
- 0.8V Reference Allows Low Output Voltage
- 4A Available Load Current
- 100% Duty Cycle in Dropout
- Current Mode Control
- Enable Function
- Internal Soft Start
- RoHS Compliant and Halogen Free

Application:

- Notebook Computer
- LCD TV and Monitor
- Distributed Power Systems
- IP Phones
- Digital Cameras

Ordering Information:

Part Number	Package	Shipment
ANT6074-ASB	SOP8-EP	Tape&Reel / 2500

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