

1.2MHz 1.6A Output Current, Boost

Converter

❖ GENERAL DESCRIPTION

The AX5524 is a high efficiency current-mode boost converter with a fixed operation frequency. The AX5524 integrates a very low Rds-on NMOSFET to reduce power loss and achieve high efficiency. The maximum efficiency is up to 93%. AX5524 can output 1.6A current when V_{IN} is higher than 3.3V and output is 5V. 1.2MHz operation frequency minimizes L and C value, and internal compensation network reduces external component counts. SOT-23-6L package provides the best solution for PCB layout area.

❖ FEATURES

- Wide Input Range: 2.5 to 5V Input
- Up to 1.6A Output Current
- Maximum 8V Output Voltage
- 1.2MHz Switching Frequency
- Low RDS(ON): 80mΩ
- Up to 93% Efficiency
- Under-Voltage Lockout Protection
- Over-Temperature Protection
- Internal Soft Start
- 1uA Shutdown Current
- Accurate Reference: 0.6V VREF
- Available in a 6-Pin SOT23 package