

1.2MHz, Peak 5.5A Current, Boost Converter

❖ GENERAL DESCRIPTION

The AX5525 is a high efficiency current-mode boost converter with a fixed operation frequency. The AX5525 integrates a very low Rds-on NMOSFET to reduce power loss and achieve high efficiency. The maximum efficiency is up to 93%. The peak current of power MOSFET is limited to 5.5A. 1.2MHz operation frequency minimizes L and C value, and internal compensation network reduces external component counts. SOP8-EP package provides the best solution for PCB heat dissipation.

❖ FEATURES

- Wide Input Range: 2.5V to 6V
- Maximum Output: 8V
- Up to 2.5A output Current with 3.0V to 4.5V Input
- 1.2MHz switching Frequency
- Low RDS (ON): 70mΩ
- Up to 93% Efficiency
- Under-Voltage Lockout Protection
- Over-Temperature Protection
- Internal Soft Start
- Less Than 1μA Shutdown Current
- Accurate Reference: 0.6V Voltage Reference