

## 40V, 3.5A, 200kHz Asynchronous Step-Down Converter

### General Description

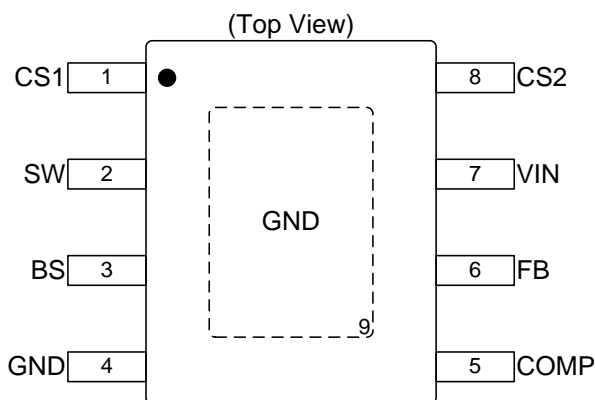
The AN6556 is a monolithic step-down switch mode converter with a built-in high-side power MOSFET. It achieves 3.5A continuous output current over a wide input supply range with excellent load and line regulation. Current mode operation provides fast transient response and eases loop stabilization. The converter can be configured as single output or dual outputs with independent over current protection (OCP). Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.

The AN6556 is available in an SOP8-EP package, provides a very compact system solution and good thermal conductance.

### Features

- Wide Input Voltage from 7.5V to 40V
- Up to 3.5A Output Current
- Adjustable Output Voltage up to 12V
- High Efficiency Up to 93%
- Dual Outputs with Independent Over Current Protection (OCP)
- 7.5% Accurate OCP
- Internal Soft-Start
- Auto Recovery into Full Load after Faults
- Output Cord Voltage Drop Compensation
- Programmable Over Current Setting
- Over-Temperature Protection
- Thermal Enhanced SOP-8 Package
- RoHS Compliant

### Pin Configuration



### Application

- Dual-Port Car Charger
- DVD, LCD Displays
- Automotive Industry

### Ordering Information

Part Number	Package	Shipment
AN6556-ASB	SOP8-EP	Tape & Reel / 2500

\*A: Output Voltage Adjustable

\*SB: SOP8-EP