

## 40V, 3A, 125kHz Asynchronous Step-Down Converter

### General Description:

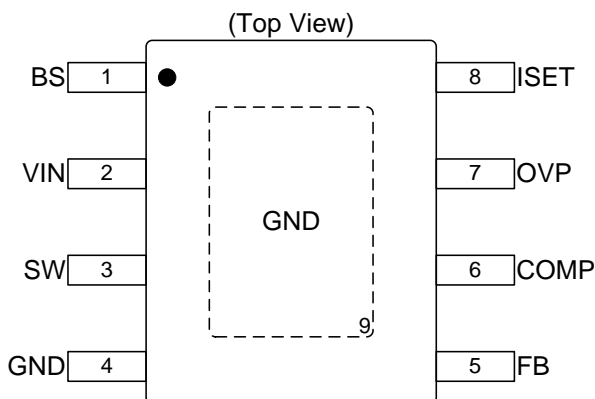
The AN6533 is a monolithic step-down switch mode converter with a built-in high-side power MOSFET. It achieves 3A continuous output current over a wide input supply range with excellent load and line regulation. Current mode operation provides fast transient response and eases loop stabilization. Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.

The AN6533 is available in an SOP8-EP package, provides a very compact system solution and good thermal conductance.

### Features:

- Wide Input Voltage from 9V to 40V
- Up to 3A Output Current
- Adjustable Output Voltage up to 12V
- High Efficiency Up to 93%
- Internal Soft-Start
- Auto Recovery after Faults
- Output Cord Voltage Drop Compensation
- Programmable Over Current Setting
- Output Over-Voltage Protection
- Over-Temperature Protection
- Thermal Enhanced SOP-8 Package
- RoHS Compliant

### Pin Configuration:



### Application:

- Car Charger
- Rechargeable Portable Devices
- Automotive Industry

### Ordering Information:

Part Number	Package	Shipment
AN6533-ASB	SOP8-EP	Tape & Reel / 2500

\*A: Output Voltage Adjustable

\*SB: SOP8-EP