

## 40V, 6/8A, 200kHz Step-Down Converter with Synchronous Gate Driver

### General Description

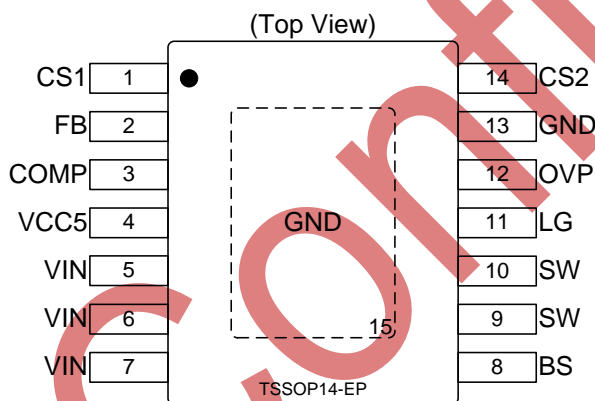
AN6559/B are monolithic step-down switch mode converters with a built-in high-side power MOSFET and a gate driver for a low side external power MOSFET. They achieve 6A/8A continuous output current over a wide input supply range with excellent load and line regulation. Current mode operation provides 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 protections include cycle-by-cycle current limit and thermal shutdown.

AN6559/B are available in TSSOP14-EP packages, provide very compact system solution and good thermal conductance.

### Features

- Wide Input Voltage from 9V to 40V
- Up to 6A Output Current for AN6559 and 8A Output Current for AN6559B
- Adjustable Output Voltage up to 6V
- 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
- Output Over-Voltage Protection
- Over-Temperature Protection
- Thermal Enhanced TSSOP-14 Package
- RoHS Compliant

### Pin Configuration



### Application

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

### Ordering Information

Part Number	Package	Shipment
AN6559-ATD	TSSOP14-EP	Tape & Reel / 2500
AN6559B-ATD	TSSOP14-EP	Tape & Reel / 2500

\*A: Output Voltage Adjustable

\*TD: TSSOP14-EP