

## 40V Synchronous CC/CV Buck Controller

### General Description

The AN6572 is a synchronous buck controller capable of regulating the output voltage below the input voltage. The AN6572 operates over a wide input voltage range of 4.5V to 40V to support a variety of applications.

The AN6572 employs voltage-mode control for superior load and line regulation. The switching frequency is programmed by an external resistor. This device also features a programmable soft-start function and offers protection features including cycle-by-cycle current limiting, input undervoltage lockout (UVLO) and thermal shutdown.

The AN6572 is available in a TSSOP14-EP package, provides a very compact system solution and good thermal conductance.

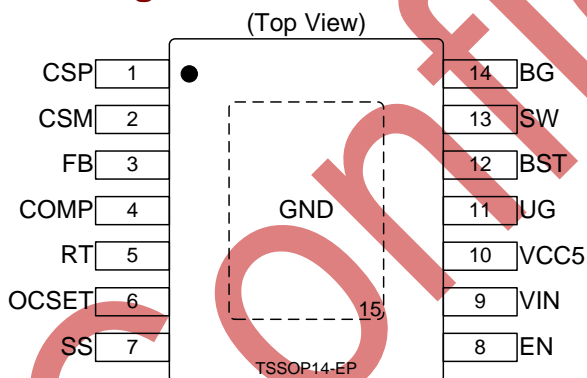
### Features

- Wide Input Voltage from 4.5V to 40V
- Adjustable Switching Frequency
- High Efficiency
- High Duty-Cycle Up to 99%
- Programmable External Soft-Start
- CC/CV Control
- Auto Recovery after Faults
- Low Output Short Current
- Programmable Over Current Setting
- Over-Temperature Protection
- Thermal Enhanced TSSOP-14 Package
- RoHS Compliant

### Application

- Car Charger
- Rechargeable Portable Devices
- USB Power Delivery
- Automotive Industry

### Pin Configuration



### Ordering Information

| Part Number | Package    | Shipment           |
|-------------|------------|--------------------|
| AN6572-ATD  | TSSOP14-EP | Tape & Reel / 2500 |

\*A: Output Voltage Adjustable

\*TD: TSSOP14-EP