

## 18V, 2A, 340KHz Synchronous Step-Down DC/DC Converter

### Description

The FR9882 is a synchronous step-down DC/DC converter that provides wide 4.5V to 18V input voltage range and 2A continuous load current capability.

Fault protection includes cycle-by-cycle current limit, input UVLO, output over voltage protection and thermal shutdown. Besides, adjustable soft-start function prevents inrush current at turn-on. This device uses current mode control scheme that provides fast transient response. In shutdown mode, the supply current is about 10uA.

The FR9882 is available in an 8-pin SOIC package, provides a very compact system solution and good thermal conductance.

### Features

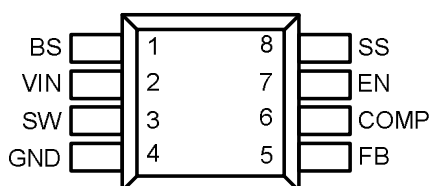
- Wide Input Voltage from 4.5V to 18V
- 2A Output Current
- Adjustable Output Voltage from 0.925V to 14V
- Low Rds(on) integrated Power MOSFET
- High Efficiency Up to 93%
- Fixed 340KHz Switching Frequency
- Current Mode Operation
- Adjustable Soft-Start
- Cycle-by-Cycle current limit
- Input Under Voltage Lockout
- Over-Temperature Protection With Auto Recovery
- 10uA Shutdown Current
- SOP-8 and Thermal Enhanced SOP-8P Packages
- RoHS Compliant

### Applications

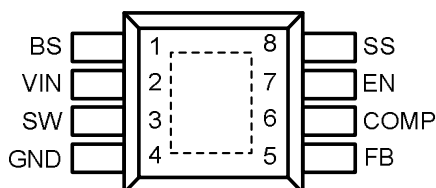
- Set-Top-Box
- DVD, LCD Displays
- OLPC, Netbook
- Datacom, XDSL

### Pin Assignments

#### SO Package (SOP- 8)



#### SP Package (SOP- 8 Expose pad )



### Ordering Information

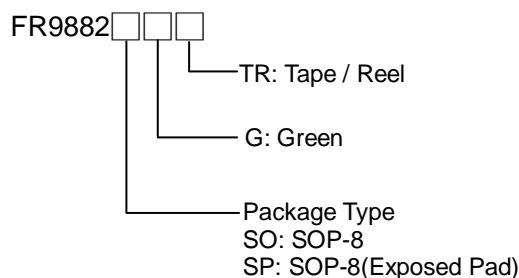


Figure 1. Pin Assignment of FR9882