

Product Overview

NCP1653: Power Factor Controller (PFC), Continuous Conduction Mode, Fixed Frequency, Compact

For complete documentation, see the data sheet.

The NCP1653 is a controller designed for Continuous Conduction Mode (CCM) Power Factor Correction (PFC) boost circuits. It operates in the follower boost or constant voltage in 67 kHz (NCP1653A) or 100 kHz (NCP1653) fixed switching frequency. Follower boost offers the benefits of reduction of output voltage and hence reduction in the size and cost of the inductor and power switch. Housed in a DIP-8 or SO-8 package, the circuit minimizes the number of external components and drastically simplifies the CCM PFC implementation. It also integrates high safety protection features. The NCP1653 is a driver for robust and compact PFC stages.

Features

- IEC61000-3-2 Compliant
- Continuous Conduction Mode
- Average Current-Mode or Peak Current-Mode Operation
- Constant Output Voltage or Follower Boost Operation
- Very Few External Components
- 67 or 100 kHz Fixed Switching Frequency
- Soft-Start Capability
- VCC Undervoltage Lockout with Hysteresis (8.7 / 13.25 V)
- Overvoltage Protection (107% of Nominal Output Level)
- Undervoltage Protection or Shutdown (8% of Nominal Output Level)

For more features, see the data sheet

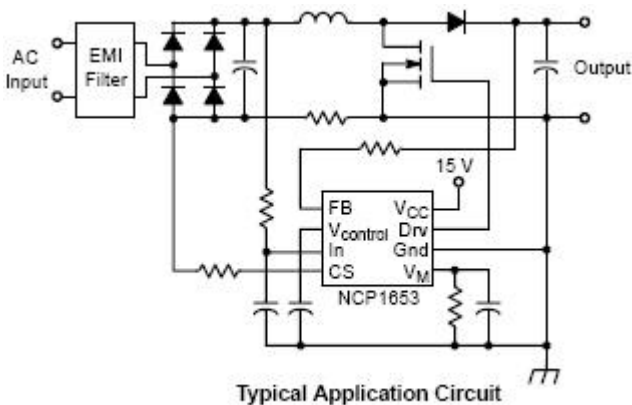
Applications

- Power Factor Correction Stage

End Products

- Flat TVs
- Desktop PCs
- AC Adapters SMPS
- White Goods

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

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