

Product Overview

NCP1606: Critical Conduction Mode Power Factor Correction Controller

For complete documentation, see the data sheet.

The NCP1606 is an active power factor controller specifically designed for use as a pre-converter in electronic ballasts, ac/dc adapters and other medium power off line converters (typically up to 300W). It embeds a Critical Conduction Mode (CRM) scheme that substantially exhibits unity power factor across a wide range of input voltages and power levels. Housed in a DIP8 or SOIC8 package, the NCP1606 minimizes the number of external components. Its integration of comprehensive safety protection features makes it an excellent driver for rugged PFC stages.

Features

- Pin to pin compatible with industry standard
- Adj. Over Voltage Protection with two current level options
- Built-in Under Voltage Protection
- High Precision Voltage Reference
- Very Low Startup Current Consumption (<40 microA)
- Low Typical Operating Current (2.1 mA)
- -500 mA / +800 mA Totem Pole Gate Driver

Benefits

- Second source
- Design flexibility and rugged design NCP1606B: further reduces losses
- Open loop protection
- Better output voltage accuracy

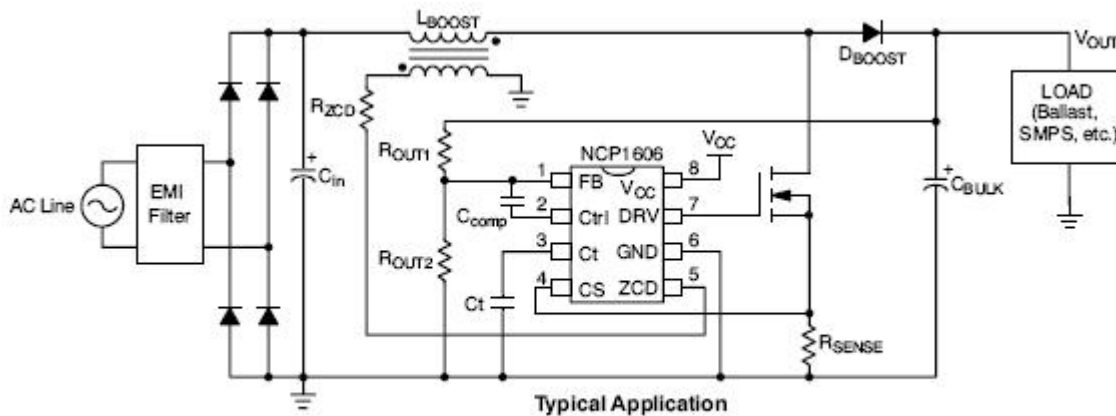
Applications

- Any Power Factor Correction stage typically under 300 W

End Products

- Electronic Ballast
- LCD TV
- Plasma TV
- Desktop PC
- AC Adapters

Application Diagram



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

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