

## High Performance Current Mode PWM Controller



### General Description

FP3001 is a highly integrated current mode PWM control IC optimized for high performance, low standby power and cost effective offline flyback converter applications. At no load or light load condition, the IC operates in extended 'burst mode' to minimize switching loss. Lower standby power and higher conversion efficiency is thus achieved. VDD low startup current and low operating current contribute to a reliable power on startup and low standby design with FP3001.

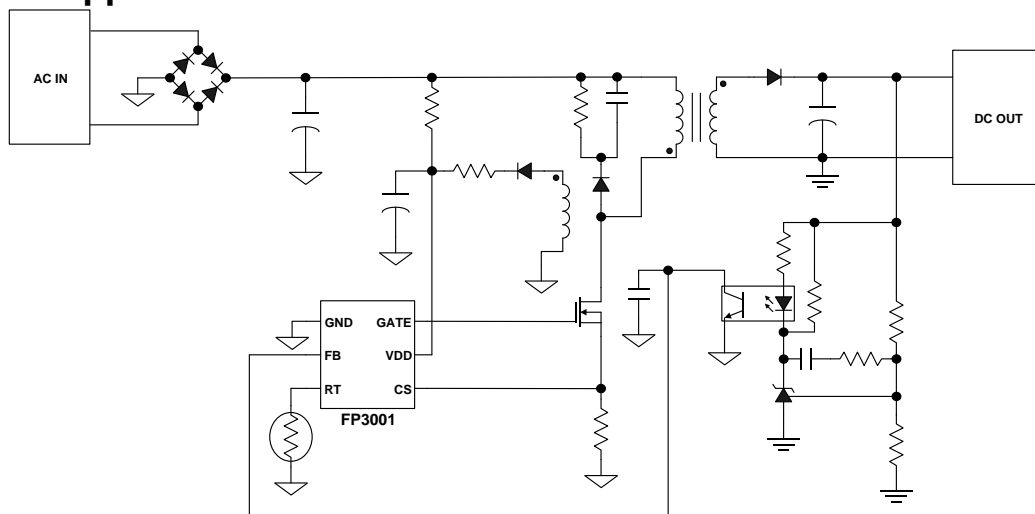
### Features

- Power on Soft Start Reducing MOSFET Vds Stress
- Frequency shuffling for EMI
- Extended Burst Mode Control For Improved Efficiency and Minimum Standby Power Design
- Cycle-by-cycle over current threshold setting for constant output power limiting over universal input voltage range
- Overload Protection (OLP) with auto-recovery
- Over Temperature Protection (OTP) and VDD over voltage Protection(OVP) with auto-recovery
- Adjustable OVP through external Zener

### Applications

- Battery Charger
- Power Adaptor
- Set-Top Box Power Supplies
- Open-frame SMPS

### Typical Application Circuit



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