

IR1144SPBF FIXED 22.2kHz FREQUENCY, ONE CYCLE CONTROL PFC IC WITH BROWN-OUT PROTECTION

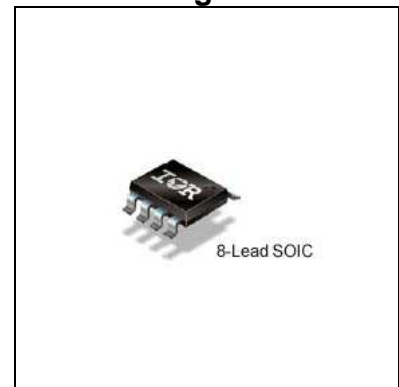
Features

- PFC IC with IR proprietary "One Cycle Control"
- Continuous conduction mode boost type PFC
- Fixed 22.2kHz switching frequency
- Average current mode control
- Input line sensed brownout protection
- Output overvoltage protection
- Open loop protection
- Cycle by cycle peak current limit
- VCC under voltage lockout
- Programmable soft start
- Micropower startup
- User initiated micropower "Sleep Mode"
- 750mA peak gate drive
- Latch immunity and ESD protection

Description

The IR1144S power factor correction IC, based on IR proprietary "One Cycle Control" (OCC) technique, provides for high PF, low THD and excellent DC Bus regulation while enabling drastic reduction in component count, PCB area and design time as compared to traditional solutions. The IC is designed to operate in continuous conduction mode Boost PFC converters with average current mode control at a fixed 22.2kHz switching frequency. The IR1144S features include input-line sensed brown-out protection, dedicated pin for over voltage protection, cycle by cycle peak current limit, open loop protection, VCC UVLO, soft-start and micropower startup current of less than 150µA. In addition, for standby power requirements, the IC can be driven into a micropower sleep mode by pulling the OVP/EN pin low where the current consumption is less than 150uA. IR1144S is available in SO-8 package.

Package



IR1144S Application Diagram

