BP870XD/BP870XBD

Integrated Flyback Switcher IC

Description

The BP870X family is a series of highly integrated current mode P M switcher ICs with high performance, low standby consumption suitable for designing fly back converters up to 25 .

The BP870X integrates a 650 V power MOSFET and a high-voltage current source which eliminates the startup resistors. It supports CCM and DCM operations. At full load, the IC operates in 65 k fix ed frequency . hen the load goes down, it operates in Green Mode while the oscillator frequency is controlled by the feedback voltage on the FB pin. At no load condition, the IC operates in burst mode to minimi e the standby power.

Frequency modulation and intelligent driving circuit are built in, which helps to achieve ex cellent EMI performance. Internal slope compensation improves the sy stem stability .

The BP870X features comprehensive protections, including cy cle-by -cy cle current limit, VCC over voltage protection and under voltage lock out, over-load protection (BP870XD) or constant power output (BP870XBD), and over temperature protection.

The BP870X is available in SOP-8 package.

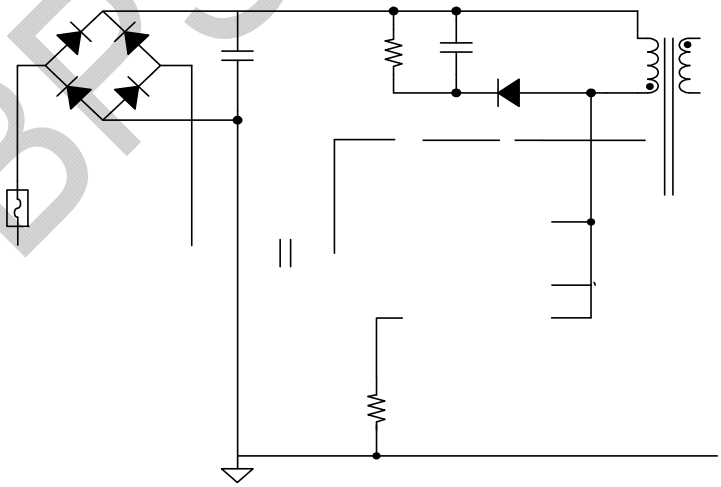
Features

Less than 75 m no-load consumption
Integrated 650 V power MOSFET
igh-voltage current source eliminates startup resistors
Internal 4 ms soft start
Fix ed 65 k frequency at heavy load
Green mode at light load
Frequency modulation and intelligent driving for ex cellent EMI
Audible noise free operation
Built-in slope compensation
Built-in leading-edge blanking (LEB)
4mm creepage distance
Comprehensive protections
- Cy cle-by -Cy cle current limit
- VCC over voltage protection (OVP)
- VCC under voltage lock out (UVLO)
- Over-load protection (for BP870XD)
- Over temperature protection (OTP)

Applications

C / USB PD Chargers
AC/DC Adapters
Standby Power Supply

Typical Application



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