EP85928D

High Integration Off-line Switcher

Description

The BP85922D is a high performance, highly integrated power supply switcher IC with lowstandby consumption. The BP85922D can be configured as buck, buck-boost topologies for universal 85-2651/AC inputs

The BP8928D integrates a 650V power MOSFET, a highvoltage current source for self-biasing, a current sensing circuit, an output feedback circuit, and an advanced controller. External loop compensation components can beeliminated, which reduces cost and size of overall power systems, and improves reliability.

The EP8392ED employs multi-mode control algorithm As a result, the no-load power consumption and the average efficiency have been improved, and the audible noise is reduced.

The BP8532ED features comprehensive protections, including short circuit protection (SCP), output over voltageprotection (OVP), overload protection (OLP), cycleby-cycle current limit, and over temperature protection (OTP).

The BP83928D is available in SOP-8 package.



Features

- Integrated 650/power MOSFET
- Integrated high-voltage current source for selfbiasing
- Integrated output feedback circuit
- Fixed 5/cutput
- Excellent transient response, lowoutput ripple
- Reduced audible noise at light load
- Adaptive switching frequency, 40kHz maximum
- Frequencymodulation for EVI improvement
- Internal soft start
- Comprehensive protections
 - > Short circuit protection (SCP)
 - > Overvoltageprotection (OVP)
 - > Over load protection (OLP)
 - > Oyde-by-cydecurrent limit
 - > Over temperature protection (OTP)

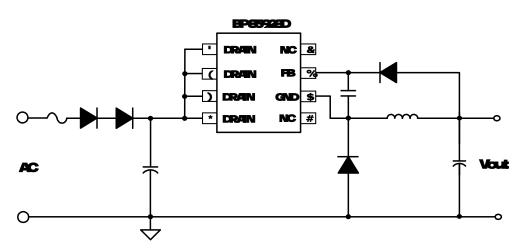
Applications

- Homeappliances
- Notor driver standby power
- IoT, smart home, smart LED drivers



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Typical Application







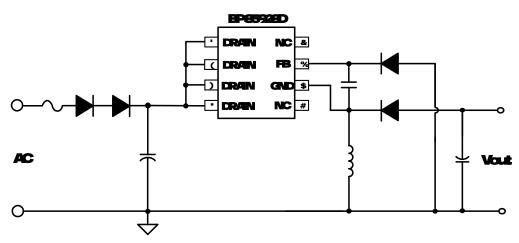


Figure 2 Typical buck-boost application with the BP85928D

Ordering Information

Part Number	Padcage	Packing	Marking
BP95929D	SOP-8	Tape& Reel	EP85528 X0000000
		4000pcs/Reel	ZZZZVNIND

Pin Configuration and Marking Information

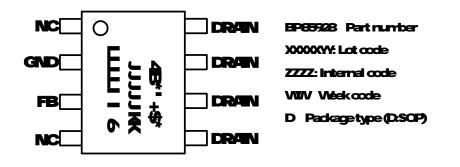


Figure 3 SOP-8pinconfiguration

PinFunctions

PinNO.	PinName	Description
14	NC	Not connected.
2	GND	Ground reference for the IC. Source connection of the internal power INDSFET.
3	FB	Voltagefeedbackpin
5678	DRAIN	Drain connection of the internal power INOSFET. Input of the high-voltage current source.



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