

BPA8504D

Integrated Energy Efficient Off-line Switcher IC

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Description

The BPA8504D is a high-performance switcher integrated circuits with low standby consumption. The BPA8504D can be easily configured as buck, buck-boost, or flyback topologies for universal AC inputs.

The BPA8504D integrates a 700V power MOSFET, a high-voltage current source for self-biasing, a current sensing circuit, and an advanced controller. External loop compensation components can be mostly eliminated, which reduces cost and size of overall power systems, and meantime achieves high reliability.

The BPA8504D employs advanced multi-mode control algorithm As a result, the no-load power consumption and average efficiency of the power systems have been improved and audible noise is reduced.

The BPA8504D features comprehensive protections, including short circuit protection (SOP), output over voltage protection (OVP), over load protection (OLP), FB openloop protection, cycle-by-cycle current limit, and over temperature protection (OTP).

The BPA8504D is available for SOP-7 package as shown below



SOP-7 package

Typical Application

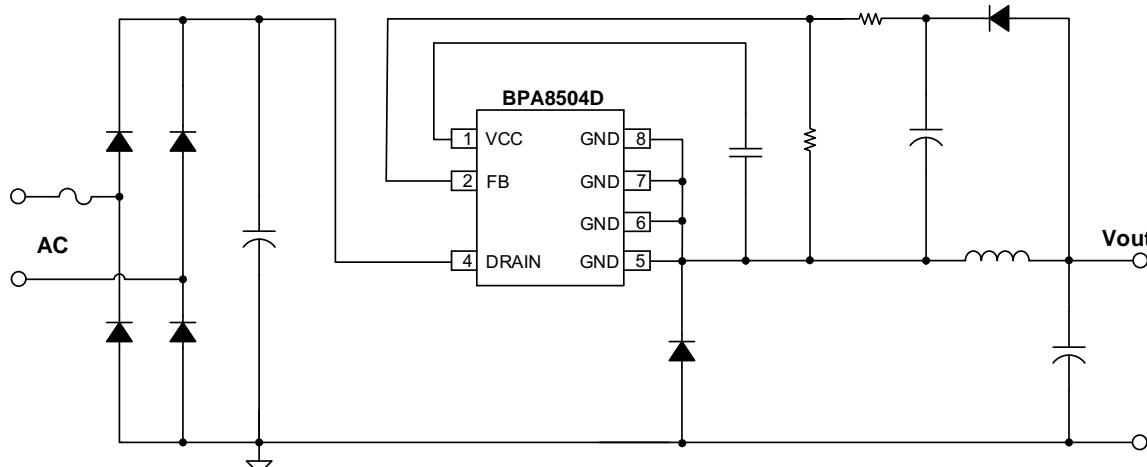


Figure 1. Typical buck application with the BPA8504D

Ordering Information

Part Number	Package	Packing	Marking
BPA8504	SOP-7	Tape & Reel 4000pcs/Reel	BPA8504 XXXXYY ZZWWWD

Pin Configuration and Marking Information

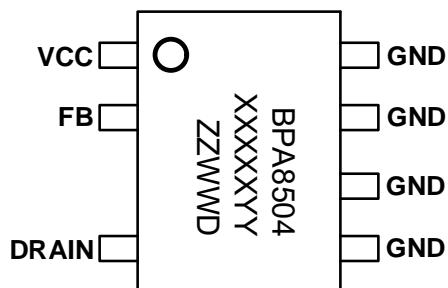


Figure 2 SOP-7 pin configuration

Pin Functions

Pin No.	Pin Name	Description
1	VCC	Power supply pin of the IC. A 0.1 μ F external bypass capacitor to GND is required on this pin.
2	FB	Output voltage feedback pin. Connect an external resistor divider to set the output voltage.
4	DRAIN	Drain connection of the internal power MOSFET. Input of the high-voltage current source.
5 6 7 8	GND	Ground reference for the VCC and FB pins. Source connection of the internal power MOSFET.

Recommended Output Current (Buck topology) (Note 1)

Part No.	230VAC \pm 15%		85 ~ 265VAC	
	DCM	CCM	DCM	CCM

v

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