BPP1N5004D

500V 1-Phase Intelligent Power Module

Description

The BPP1N5004D is a high voltage 1-Phase IPM (Intelligent Power Module). It integrates HVIC and high-performance MOSFET for BLDC and PMSM motors. Separate Open-Source Pins from Low-Side MOSFETs are for Current-Sensing.

The input works with Schmitt-trigger and the logic voltage level is compatible with 3.3V/5V/15V signal. UVLO and dead time are also provided.

Features

- Built-in high-performance 500V/4A MOSFET
- Robust at negative transient voltage
- Gate drive supply range from 10V to 20V
- 3.3V, 5V and 15V input logic compatible
- UVLO for both high side and low side
- Built-in dead time to avoid cross-conduction
- Available in DIP8 package

Typical Application

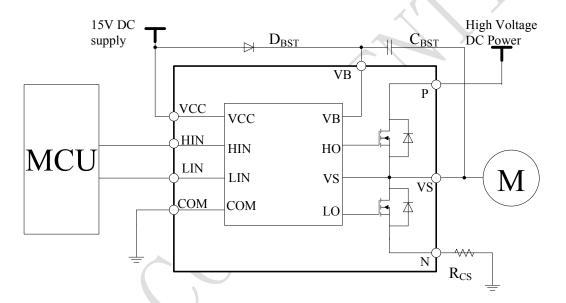


Figure 1. Typical application circuit for BPP1N5004D



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Ordering Information

Part Number	Package	Operation Temperature	Package Method	Marking
BPP1N5004D	DIP 8	-40 °C to 105 °C	Tube 50pcs/tube	BPP1N5004D XXXXXAX
			-	C1ETWWY

Pin Configuration and Marking Information

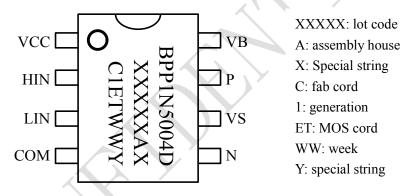


Figure 2. Pin configuration

Pin Definition

Pin No.	Name	Description
1	VCC	Logic and low side MOSFET driving supply
2	HIN	Logic input for high side
3	LIN	Logic input for low side
4	COM	Logic common ground
5	N	Negative reference and low side MOSFET return
6	VS	Output and high side MOSFET return
7	P	Positive high voltage DC Power supply
8	8 VB High side MOSFET driving supply	



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