

Description

The BP6903A is a high voltage, high speed half-bridge pre-driver for power MOSFET and IGBT. It has inputs for both high side and low side, and two output channels with internal dead time to avoid cross-conduction.

The input logic level is compatible with 3.3V/5V/15V signal. The floating high side channel can drive a N-channel power MOSFET or IGBT up to 600V.

Features

- Floating channel operation up to 600V
- Robust at negative transient voltage
- Gate drive supply range from 10V to 20V
- 3.3V, 5V and 15V input logic compatible
- Reverse input for low side
- UVLO for both high side and low side
- Built-in dead time
- Available in SOP8 package

Typical Application

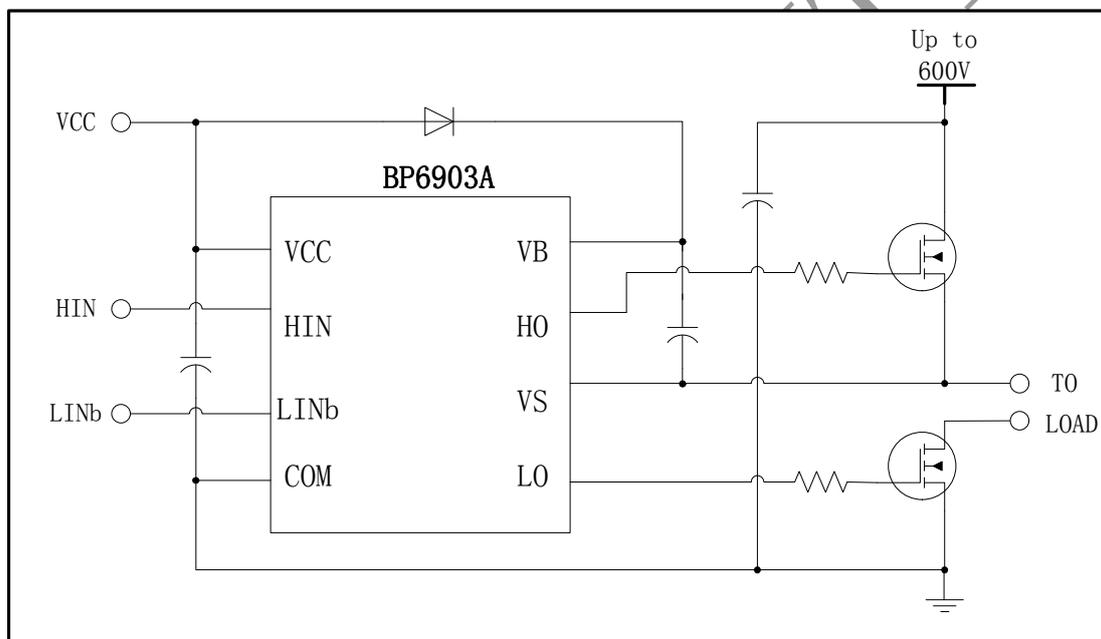


Figure 1. Typical application circuit

Ordering Information

Part Number	Package	Operation Temperature	Package Method	Marking
BP6903A	SOP8	-40 °C to 105 °C	Tape 4,000 Piece/Roll	BP6903 XXXXXXYA XXWWX

Pin Configuration and Marking Information

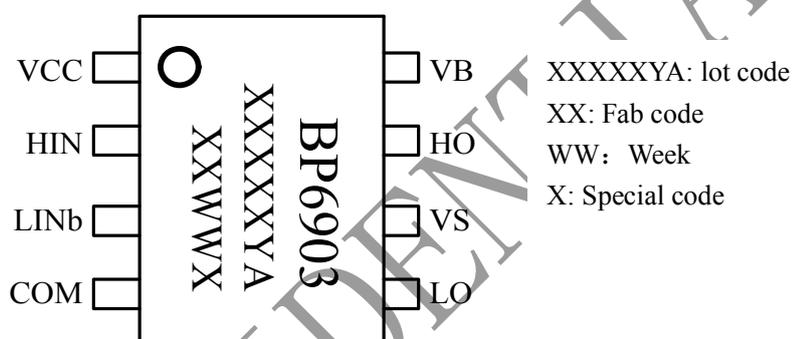


Figure 2. Pin configuration

Pin Definition

Pin No.	Name	Description
1	VCC	Low side and logic supply voltage
2	HIN	Logic input for high side, in phase with HO
3	LINb	Logic input for low side, out of phase with LO
4	COM	Logic ground and low side driver return
5	LO	Low side driver output
6	VS	High side driver return
7	HO	High side driver output
8	VB	High side floating supply

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