General Description

The OCH2986 is an integrated Hall sensor with H-Bridged output driver designed for brushless DC motor applications. The device is using HV BCD process includes an on-chip Hall sensor for magnetic sensing, an amplifier that amplifies the Hall voltage, a comparator to provide switching hysteresis for noise rejection, a bi-directional drivers for sinking and driving large current load.

Placing the device in a variable magnetic field, if the magnetic flux density is larger than threshold BOP, the DO is turned to sink and DOB is turned to drive. This output state is held until the magnetic flux density reverses and falls below BRP, then causes DO to be turned to drive and DOB turned to sink.

OCH2986 is available in SIP-4L package and is rated over the -40°C to 85°C.

Features

- One-chip Solution (Hall Element + Driver)
- Input Voltage Range : 3.5V to 20V
- For Single Coil DC motor / Fan Systems
- High Sensitivity Hall Sensor
- Thermal Shutdown Protection
- Low Output Switching Current Noise
- -40℃ to +85 ℃ Temperature Range
- RoHS Compliant
- Available in SIP-4L Packages

Applications

- Single Coil Design Cooling Fans
- Single Coil DC Brushless Fan
- Single Coil DC Brushless Motor
- Office Automated Equipment
- Brown-Goods
- Home Applications
- Car Audio Cooling Fan

Pin Configuration

(Top View)

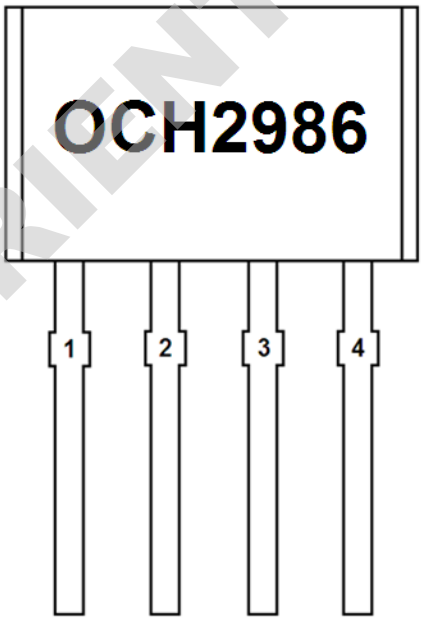
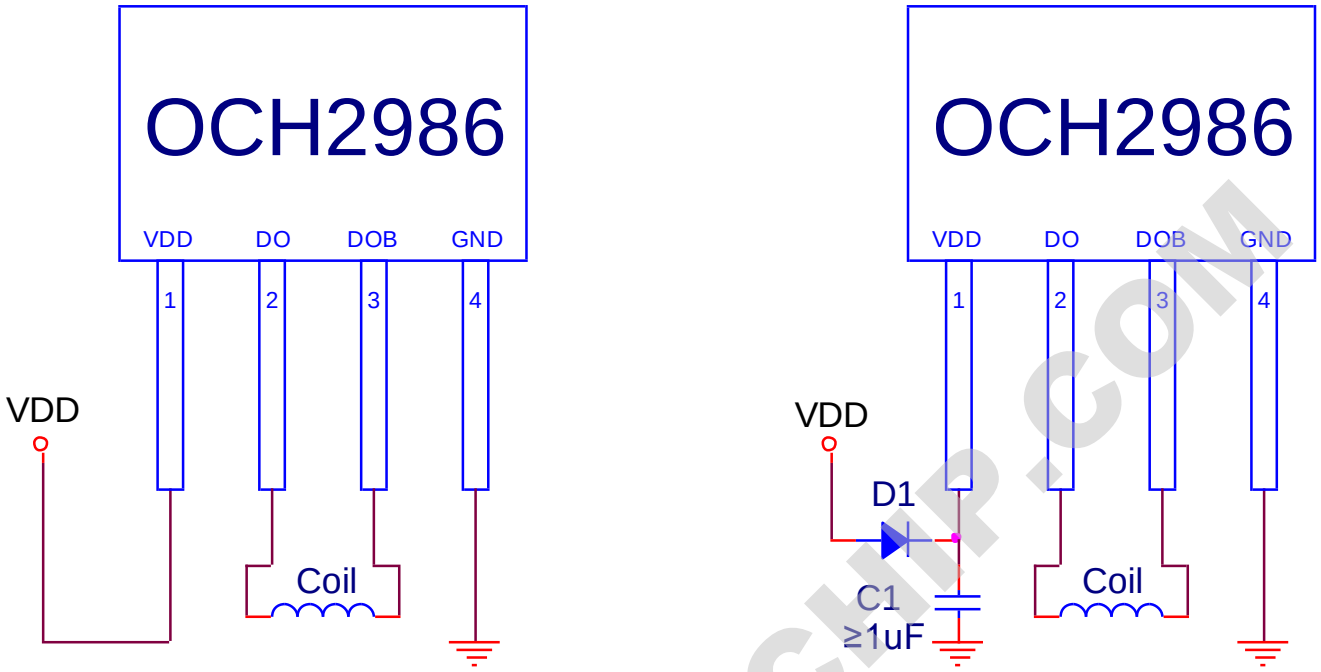


Figure 1, Pin Assignments of OCH2986

Pin Name	Pin No.	Pin Function
VDD	1	Positive Power Supply
DO	2	Output 1
DOB	3	Output 2
GND	4	Ground

■ Typical Application Circuit



NOTE:D1 Is reversed protection diode
Figure 2, Typical Application Circuit of OCH2986 (SIP-4L)

■ Ordering Information

Part Number	Package Type	Packing Qty	B_{OP} (Gauss)	B_{RP}(Gauss)	Temperature	Eco Plan	Lead
OCH2986MD	SIP-4L	1500pcs/Bag	5 ~ 50	-50 ~ -5	-40 ~ 85℃	ROHS	Cu

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