

■ General Description

The OCH277H is an integrated Hall sensor with output driver designed for electronic commutation of brushless DC motor applications. This IC is using HV BCD process internally includes an on-chip Hall sensor for magnetic sensing, an amplifier that amplifies the Hall voltage, a Schmitt trigger to provide switching hysteresis for noise rejection, a temperature compensation circuit to compensate the temperature drift of Hall sensitivity and two complementary open-Drain drivers for sinking large load current. It also includes an internal band-gap regulator which is used to provide bias voltage for internal circuits.

Placing the device in a variable magnetic field, if the magnetic flux density is larger than threshold BOP, the pin DO will be turned low (on) and pin DOB will be turned high (off). This output state is held until the magnetic flux density reverses and falls below BRP, then causes DO to be turned high (off) and DOB turned low (on).

OCH277H 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 : 3.3V to 20V
- Reverse Supply Voltage Protection
- For DC motor / Fan Systems
- Low Cost Solution
- High Sensitivity Hall Sensor
- Dual Complementary Open Drain Output
- Peak Current up to 700mA (<100uS)
- Output Continues Current: 400mA/12V Supply
- Built-in Output Protection Clamping Diode
- Over Thermal Protection
- RoHS Compliant
- Available in SIP-4L Packages
- -40°C to +85 °C Temperature Range

■ Applications

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

■ Pin Configuration

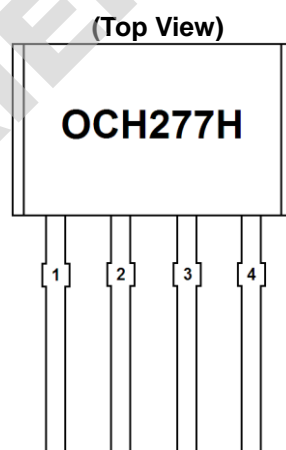


Figure 1, Pin Assignments of OCH277H

Pin Name	Pin No.	I/O	Pin Function
	SIP-4L		
VDD	1	P	Positive Power Supply
DO	2	O	Open Drain Output 1
DOB	3	O	Complementary Open Drain Output (2)
GND	4	P	Ground

■ Typical Application Circuit

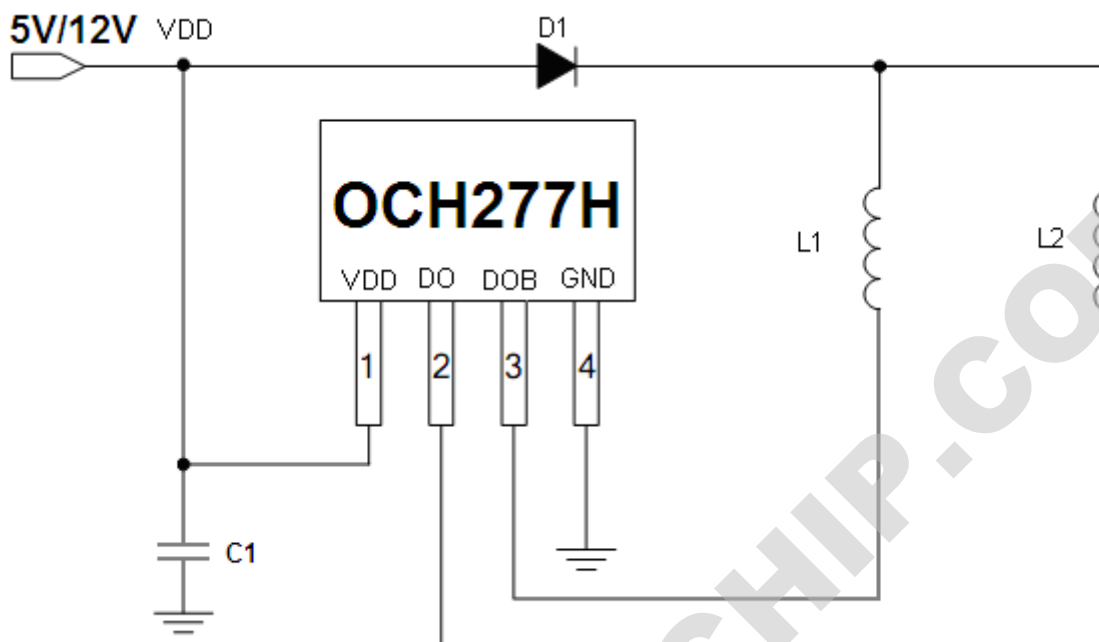


Figure 2, Typical Application Circuit of OCH277H (SIP-4L)

■ Ordering Information

Part Number	Package Type	Packing Qty	B _{OP} (Gauss)	B _{RP} (Gauss)	Temperature	Eco Plan	Lead
OCH277HAMD	SIP-4L	1500pcs/Bag	5 ~ 50	-50 ~ -5	-40 ~ 85°C	ROHS	Cu
OCH277HBMD	SIP-4L	1500pcs/Bag	5 ~ 65	-65 ~ -5	-40 ~ 85°C	ROHS	Cu
OCH277HCMD	SIP-4L	1500pcs/Bag	5 ~95	-95 ~ -5	-40 ~ 85°C	ROHS	Cu

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