■ General Description

The OCH41H is an integrated Hall Effect latched sensor designed for electronic commutation of brush-less DC motor applications. The device includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the Hall voltage, and a Schmitt to provide switching hysteresis for noise rejection, and open-collector output. An internal bandgap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

A south pole of sufficient strength will turn the output ON. In the absence of a magnetic field, the output is OFF.

■ Features

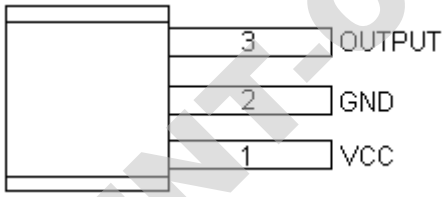
- Wide operating voltage range: 4.0V~30V
- Wide operating temperature range: -40°C ~+150°C
- Reverse polarity protection
- HBM ESD > 8KV
- Package: SIP-3L

■ Applications

- Rotor Position Sensing
- Brush-less DC Fan
- Brush-less DC Motor
- Speed measurement
- Revolution counting

■ Pin Configuration

(Top View)



Pin Name	Pin No.	P/O	Pin Function
VCC	1	P	IC Power Supply
GND	2	P	IC Ground
Output	3	O	It is low state during the S magnetic field

■ Typical Application Circuit

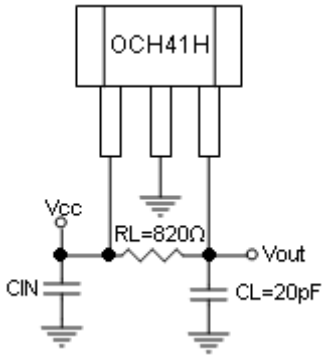
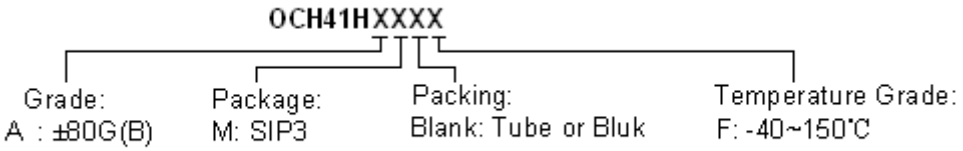


Figure 1, application circuit of OCH41H

Note: C_{IN} is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 0.1~1uF. If the V_{CC} power supply is clean, the C_{IN} can be cancelled.

■ Ordering Information



Part Number	Package Type	Package Qty	Brp (Gauss)	Bop (Gauss)	Temperature	Eco Plan	Lead
OCH41HAMF	SIP-3L	Bulk 1000pcs/bag	-80 ~ -5	5 ~ 80	-40～150℃	ROHS	Cu

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