

### ■ General Description

The OCH182 is an integrated Hall effect latched sensor designed for electronic commutation of brush-less DC motor applications. The device using HV BCD process includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifies the Hall voltage, and a Schmitt trigger to provide switching hysteresis for noise rejection, and an open-collector output. An internal band-gap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

If a magnetic flux density larger than threshold  $B_{op}$ , output is turned on (low). The output state is held until a magnetic flux density reversal falls below  $B_{rp}$  causing OUT to be turned off (high).

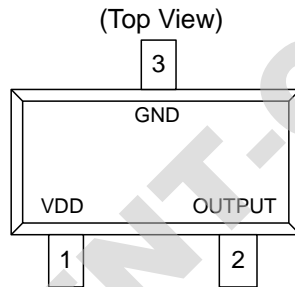
### ■ Features

- Wide operating voltage range: 2.5V~26V
- Operating temperature range: -40°C ~+125°C
- Temperature compensation
- Reverse polarity protection
- Integrated 10KΩ pull-up resistor
- Package: SOT23-3L

### ■ Applications

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

### ■ Pin Configuration



Name	No.	Status	Description
VDD	1	P	IC Power Supply
OUTPUT	2	O	It is low state during the S magnetic field
GND	3	P	IC Ground

### ■ Application Circuit

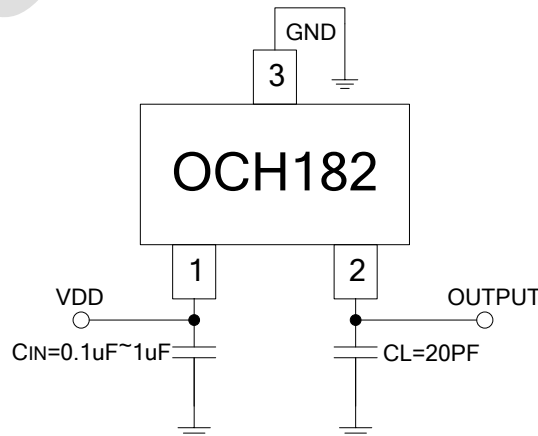


Figure 1, application circuit of OCH147

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

**■ Ordering Information**

Part Number	Package Type	Packing Qty	B <sub>OP</sub> (Gauss)	B <sub>RP</sub> (Gauss)	Temperature	Eco Plan	Lead
OCH182WAE	SOT23-3L	3000pcs	28(Typ.)	-28(Typ.)	-40 ~ 125°C	ROHS	Cu

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