General Description

The OCH183 is an integrated Hall effect latched sensor designed for electronic commutation of brush-less DC motor applications. The device using High Voltage process includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers 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.

Features

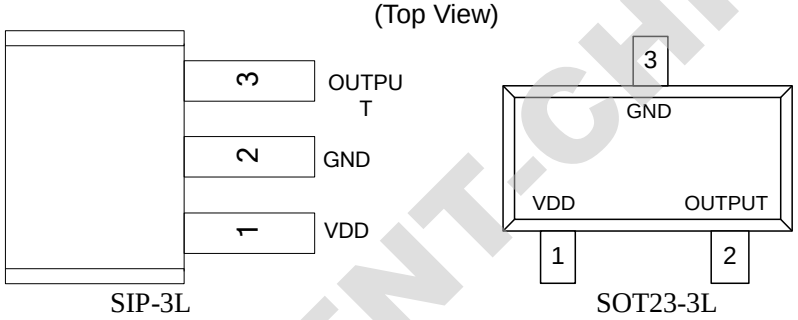
- Wide operating voltage range: 2.5V~26V
- Operating temperature range: -40°C ~+125°C
- Temperature compensation
- Reverse polarity protection
- Integrated 10KΩ pull-up resistor
- Package: SIP-3L、SOT23-3L

Applications

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

Pin Configuration

(Top View)



Name	No.		Status	Description
	SIP-3L	SOT23-3L		
VDD	1	1	P	IC Power Supply
GND	2	3	P	IC Ground
OUTPUT	3	2	O	SIP-3L:It is low state during the S magnetic field
				SOT23-3L: It is low state during the N magnetic field

Application Circuit

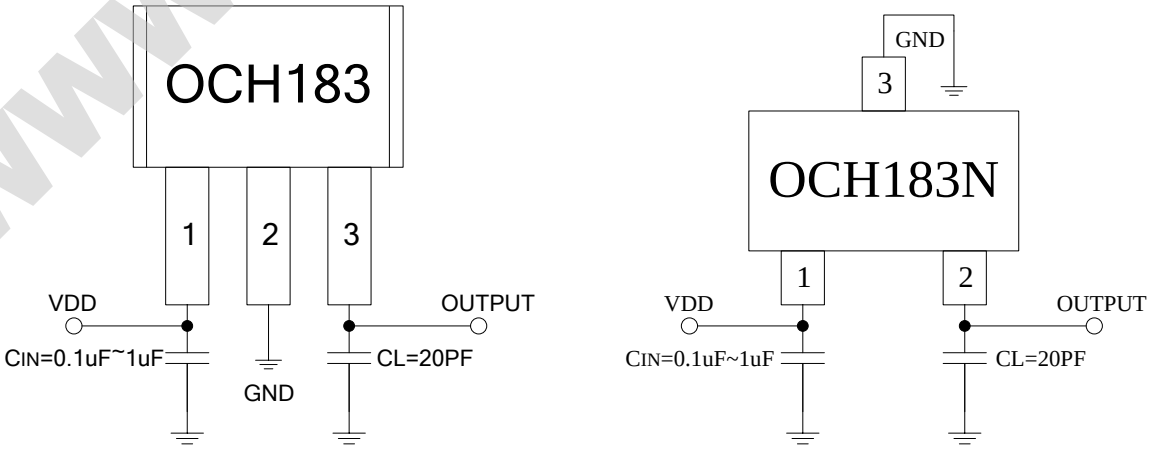


Figure 1, application circuit

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_{OP} (Gauss)	B_{RP}(Gauss)	Temperature	Eco Plan	Lead
OCH183ME	SIP-3L	1000pcs	28(Typ.)	-28(Typ.)	-40 ~ 125℃	ROHS	Cu
OCH183NWAE	SOT23-3L	3000pcs	28(Typ.)	-28(Typ.)	-40 ~ 125℃	ROHS	Cu

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