

General Description

The OCH147H 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 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.

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

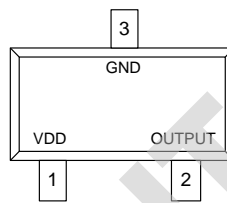
- Wide operating voltage range: 3.3V~26V
- Operating temperature range: -40°C ~+150°C
- Temperature compensation
- Reverse polarity protection
- Open-Drain pre-driver
- Package: SOT23-3L

Applications

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

Pin Configuration

(Top View)



Name	No.	Status	Description
V _{DD}	1	P	IC Power Supply
Gnd	3	P	IC Ground
Output	2	O	It is low state during the S magnetic field

Application Circuit

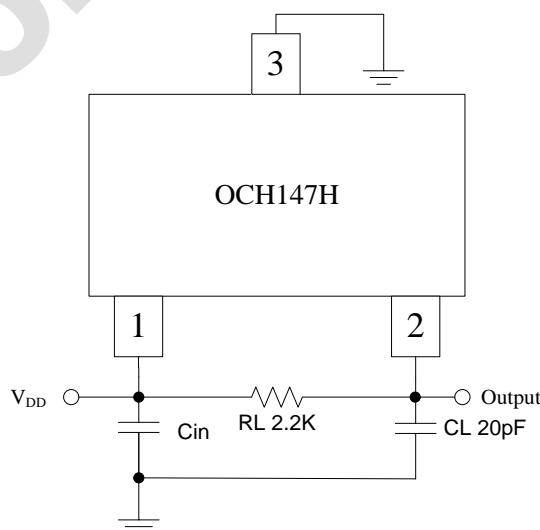


Figure 1, application circuit of OCH147

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 _{OP} (Gauss)	B _{RP} (Gauss)	Temperature	Eco Plan	Lead
OCH147HWAF	SOT23-3L	3000pcs	25(Typ.)	-25(Typ.)	-40 ~ 150°C	ROHS	Cu

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