General Description

The OCH147 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 trigger to provide switching hysteresis for noise rejection, and integrated the pull-up resistor. An internal bandgap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range. To minimize the BOM cost, only one external component is needed to complete the application circuit.

Features

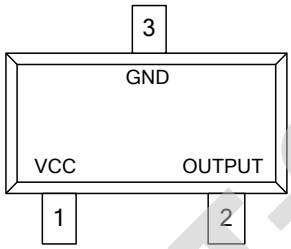
- Wide operating voltage range: 3.8V~30V
- Wide operating temperature range: -40°C ~+125°C
- Reverse polarity protection
- Integrated pull-up resistor
- Package: SOT23-3L

Applications

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

Pin Configuration

(Top View)



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

Application Circuit

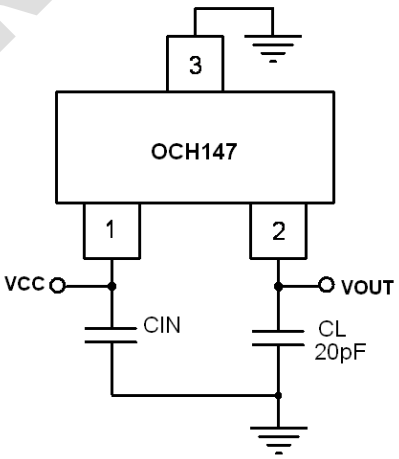
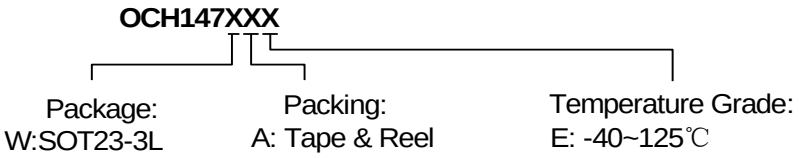


Figure 1, application circuit of OCH147

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	Package Qty	Brp (Gauss)	Bop (Gauss)	Temperature	Eco Plan	Lead/Ball Finish
OCH147WAE	SOT23-3L	7-in reel 3000pcs/reel	-80 ~ -5	5 ~ 80	-40～125℃	Green	Cu Sn

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