OCH1441

Bipolar Hall Effect Position Sensor for High Temperature Application

■ General Description

The OCH1441 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 band-gap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

In the absence of a magnetic field, the output pin is “OFF” (High). A south pole of sufficient strength will turn the output “ON” (Low). While the magnetic flux density (B) is larger than threshold Bop, the output pin is “ON” (Low). If B removed toward B_{RP}, the output pin is latched “OFF” (High) state prior to $B < B_{RP}$. When $B < B_{RP}$, the output pin goes into “OFF” state (High).

■ Features

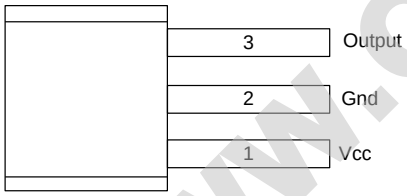
- Bipolar Hall Effect Latch Sensor
- Wide operating voltage range: 3.8V~25V
- Open Collector Pre-Driver
- Maximum output sink current: 50mA
- Chip Power Reverse-Connection Protection
- Operating Temperature: -40℃~+150℃
- Package: SIP3L

■ Applications

- Rotor Position Sensing
- Current Switch
- Encoder
- RPM Detection
- Brush-less DC Motor
- Brush-less DC Fan
- Revolution counting
- Speed measurement

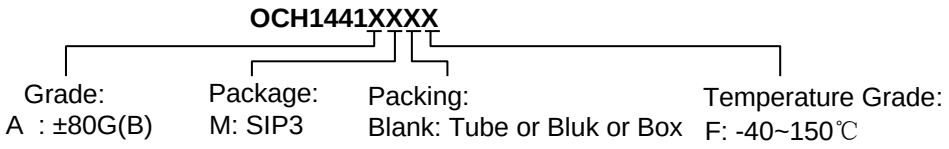
■ Pin Configuration

(Top View)



Name	No.	Status	Description
VCC	1	P	Input Power Supply
GND	2	P	Ground
Output	3	O	Output Stage of Open Collector

■ Ordering Information



Part Number	Package Type	Package Qty	Brp (Gauss)	Bop (Gauss)	Temperature	Eco Plan	Lead/Ball Finish
OCH1441AMF	SIP-3L	Box 1000pcs/bag	-80 ~ -10	10~ 80	-40～150℃	ROHS	Cu Sn

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