



Preliminary

OCH141

Bipolar Hall Effect Position Sensor For High Temperature

ORIENT-CHIP

General Description

The OCH141 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 bandgap 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 north 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". If B removed toward Brp, the output pin is latched "ON" state prior to B < Brp. When B < Brp, the output pin goes into "OFF" state.

Features

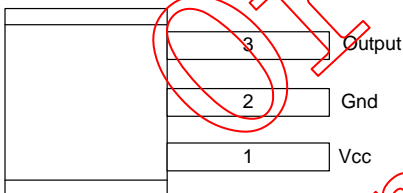
- Bipolar Hall Effect Latch Sensor
- Wide operating voltage range: 3.8V~30V
- Open Collector Pre-Driver
- Maximum output sink current: 30mA
- Chip Power Reverse-Connection Protection
- Operating Temperature: -40°C~+150°C
- Package: SIP3L

Applications

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

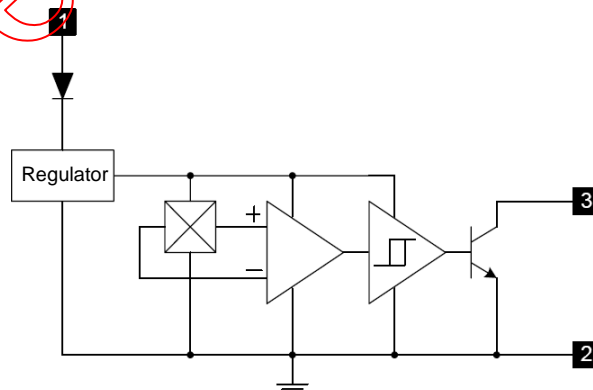
Pin Configuration

(Top View)



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

Functional Block Diagram



Contact Information:

For more detail information , please direct any inquiries and/or comments to info@orient-chip.com.