



### General Description

OCH145 is a switched Hall-Effect IC, which is for contactless switching applications. The device includes an on-chip Hall voltage generator for magnetic sensing, an amplifier that amplifies the Hall voltage, a Schmitt trigger to provide switching hysteresis for noise rejection, and an open-collector output. The bandgap regulator allows a wide operating voltage range. OCH145 is rated for operating temperature range from -40° C to 150° C and voltage range from 3.8V to 30V. OCH145 are capable of continuous 20mA sinking out and maybe cycled as high as 50mA maximum.

### Features

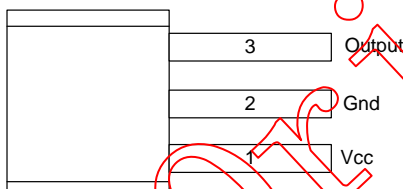
- Unipolar Hall Effect Switch Sensor
- Wide operating voltage range: 3.8V~30V
- Open Collector Pre-Driver
- Maximum output sink current: 50mA
- Chip Power Reverse-Connection Protection
- Operating Temperature: -40°C~+150°C
- Small Size Package: SIP3L

### Applications

- Non-Contact Switch
- Automotive Ignition
- Braker ICs
- Position Control
- Revolution Detection
- Safe Alarm Device
- Textile Control System

### 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

