

## ■ General Description

The OCH29895 is an integrated Hall sensor with H-Bridged output driver designed for brushless DC motor applications. The device is using high voltage BCD process includes an on-chip Hall sensor for magnetic sensing, an amplifier that amplifies the Hall voltage, a comparator to provide switching hysteresis for noise rejection, a bi-directional drivers for sinking and driving large current load.

OCH29895 built-in power supply reverse connection protection circuit enables the OCH29895 do no need for external reverse diode in application, can reducing the fan cost.

OCH29895 is available in SIP-4L package and is rated over the -40°C to 125°C.

## ■ Features

- Built-in VCC to GND reverse voltage protection
- Low Output Switching Current Noise
- One-chip Solution(Hall Element+Driver)
- Input Voltage Range:3.5V to 30V
- High Sensitivity Hall Sensor BOP (20GS), BRP (-20GS)
- Thermal Shutdown Protection
- Lock-shutdown Protection & Auto-Restart Function
- $R_{DS(ON)}$  :1.65Ω
- RoHS Compliant
- Available in SIP-4L(TO94) package

## ■ Applications

- Single Coil Design Cooling Fan
- Single Coil DC Brushless Motor

## ■ Pin Configuration

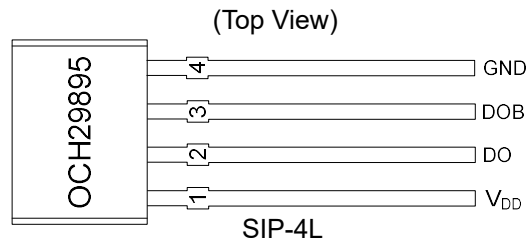


Figure 1, Pin Assignments of OCH29895

Pin Name	Pin No.	Pin Function
V <sub>DD</sub>	1	Positive Power Supply
DO	2	Output 1
DOB	3	Output 2
GND	4	Ground

## ■ Typical Application Circuit

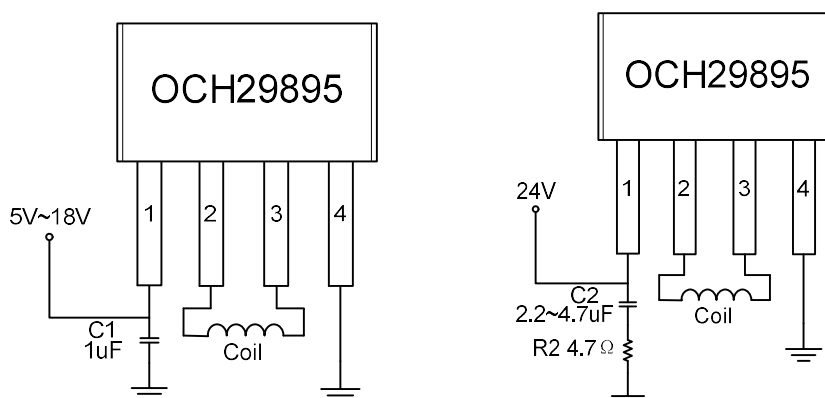


Figure 2, Typical Application Circuit Of OCH29895

Note1 : When the power pulse is relatively large , Must use least C1=1μF ceramic capacitor or C2=2.2~4.7uF electrolytic capacitor for the decoupling between V<sub>DD</sub> and GND and place the capacitor as close to the IC as Possible.

## ■ Block Diagram

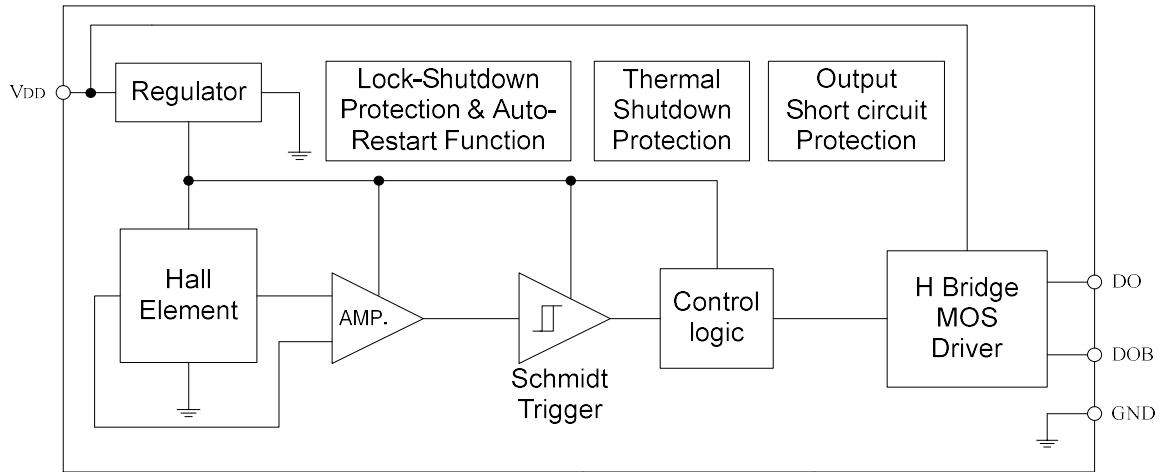


Figure 3, Block Diagram Of OCH29895