■ General Description

The OCH186 using CMOS technology is a unipolar detection type Hall IC. In the Hall IC, a Hall element, an offset cancel circuit, an amplifier circuit, a sample and hold circuit, a Schmidt circuit, and output stage FET are integrated on a single chip housed in a small package by IC technique.

South poles of sufficient strength will turn the output on. The output will be turned off under no magnetic field. While the magnetic flux density (B) is larger than operating point (BOP), the output will be turned on (low), the output is held until B is lower than release point (BRP), and then turned off.

The OCH186 is available in TSOT23-3L Package. Operating temperature range of the OCH186 is from -40°C to 85°C.

To minimize the BOM cost, capacitors of the MLCC type are supported, and only one external component is needed to complete the application circuit.

■ Features

- Input Voltage Range: 2.5V to 6.0V
- Chopper stabilized amplifier stage
- Good RF noise immunity
- Small package: TSOT23-3L, CMOS output. (no pull-up resistance)

■ Applications

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

■ Pin Configuration

TSOT23-3L (Top View)

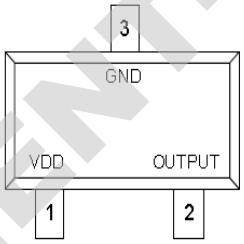
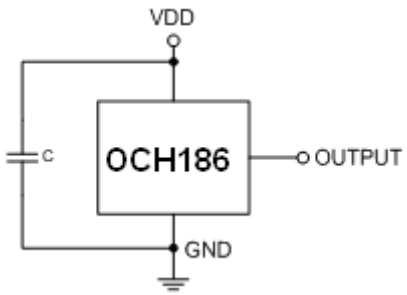


Figure 1, Pin Assignments of OCH186

Pin Name	Pin No. TSOT23-3L	Pin Function
VDD	1	Power Supply Input
GND	3	Ground
OUTPUT	2	Output Pin

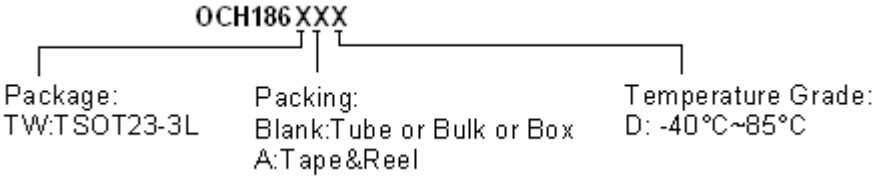
■ Typical Application Circuit



Note: C1 is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 10nF~100nF.

Figure 2, Typical Application Circuit of OCH186

■ Ordering Information



Part Number	Package Type	Package Qty	B_{RPS} (Gauss)	B_{OPS} (Gauss)	Temperature	Eco Plan	Lead
OCH186TWAD	TSOT23-3L	7-in reel 3000pcs/reel	50 ~ 100	90 ~ 130	-40～85℃	Green	Cu

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