



General Description

OCH1300 is a Ultra-sensitive omnipolar magnetic switch. uses CMOS integrated circuits, including magnetic head, power timing circuit, Op Amp., Schmidt trigger and CMOS output circuit. OCH1300 internal integrated power compensation and temperature compensation circuit. To ensure that the chip has wide working voltage range, wide working temperature range, Low current consumption and superior anti-interference characteristics, it has become an ideal choice for many low power and high performance applications.

OCH1300 uses a small SOT23-3L package.

Features

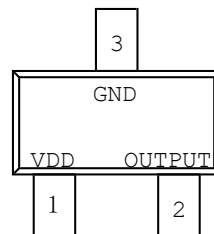
- Ultra-sensitive15GS
- Operation with North or South pole(omnipolar)
- Push-pull output & OD output optional
- No external pull resistance
- Good RF noise immunity
- SOT23-3L package
- Through Rohs and Reach

Applications

- Flower meter
- Proximity Switch
- Smart home

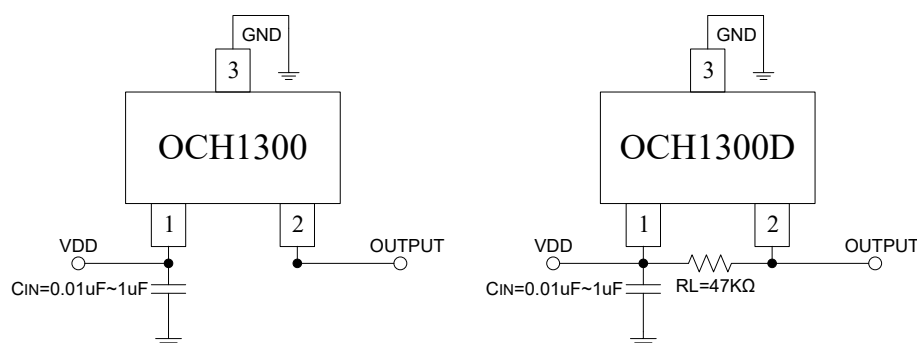
Pin Configuration

SOT23-3L(Top View)



Pin Name	Pin No.	Pin Description
VDD	1	Power Supply
OUTPUT	2	Output
GND	3	Ground

Typical Application Circuit

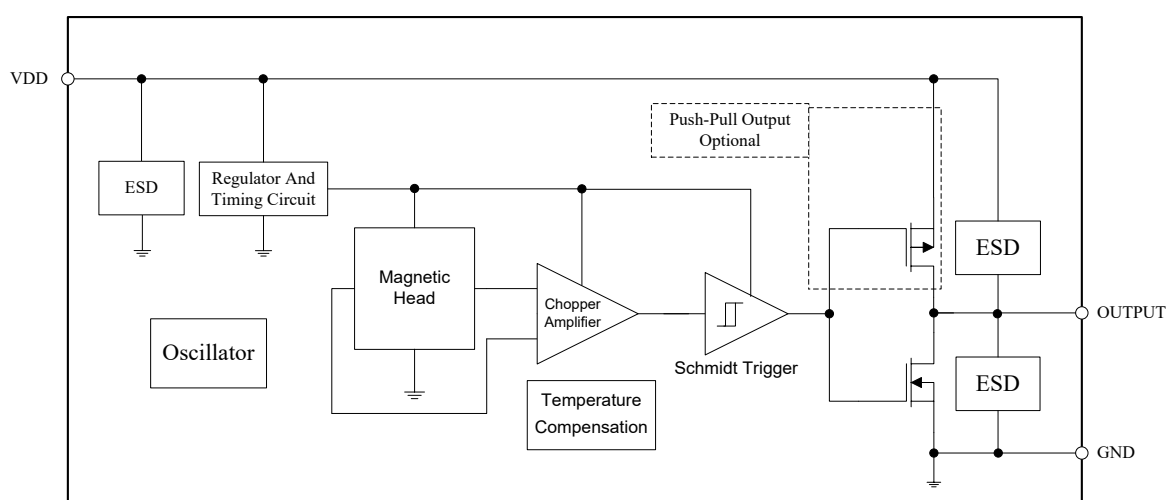


Note: C1 is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 100nF~1uF.

Ordering Information

Part Number	Package Type	Packing Qty	B _{OP} (GS)	B _{RP} (GS)	Temperature	Eco Plan	Lead
OCH1300WAD	SOT23-3L	3000pcs/Reel	±8~±19	±4~±18	-40~ +85℃	ROHS	Cu
OCH1300DWAD	SOT23-3L	3000pcs/Reel	±8~±19	±4~±18	-40~ +85℃	ROHS	Cu

Block Diagram



Absolute Maximum Ratings (T_A=25℃ unless otherwise noted)

Parameter	Symbol	Rating	Unit
VDD To GND	V _{CC}	-0.3 to 6	V
Magnetic Flux Density	B	Unlimited	GS
Storage Temperature Range	T _S	-65 to +150	℃
Operating Junction Temperature Range	T _J	-40 to 150	℃
Maximum Power Dissipation	P _D	230	mW
Maximum Soldering Temperature(at leads, 10 sec)	T _{LEAD}	260	℃

Recommended Operating Conditions (T_A=25℃, unless otherwise noted)

Parameter	Symbol	Conditions	Rating	Unit
Supply Voltage	V _{DD}	Operating	2.5 ~ 5.5	V
Operating Temperature Range	T _A	Operating	-40 ~ +85	℃