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■ General Description

The OCH177N is an integrated Hall effect latched sensor. The device using High Voltage process includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the Hall voltage, and a Schmitt trigger to provide switching hysteresis for noise rejection, and an Open-Drain output. An internal band-gap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

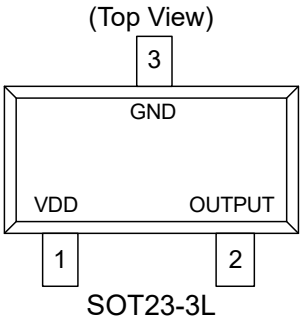
■ Features

- Wide operating voltage range: 2.4V~24V
- Operating temperature range: -40°C ~ +150°C
- Temperature compensation
- Reverse polarity protection
- Open-Drain pre-driver
- Package: SOT23-3L

■ Applications

- Rotor Position Sensing
- Brush-less DC Motor
- Speed measurement
- Revolution counting

■ Pin Configuration



SOT23-3L

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

■ Application Circuit

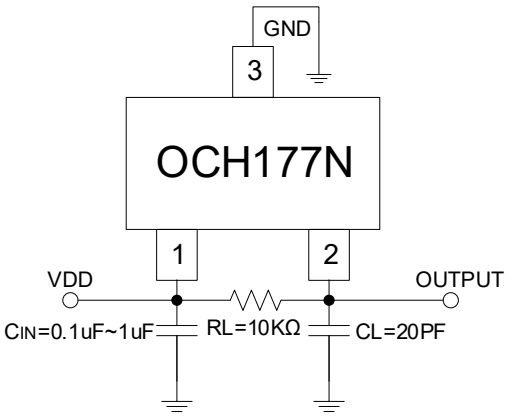


Figure 1, application circuit

Note: C_{IN} is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 0.1~1uF.

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■ Block Diagram

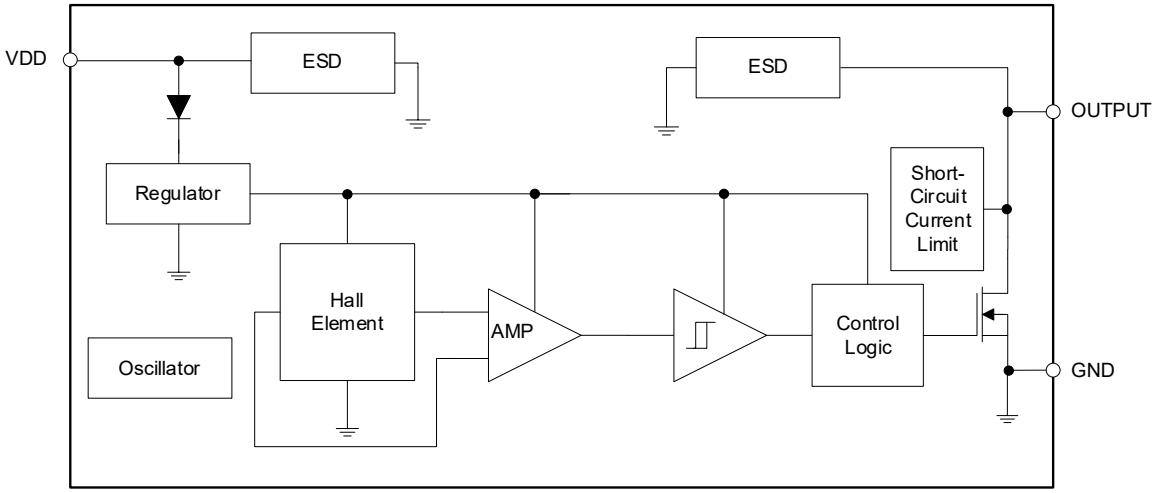


Figure 2, Block Diagram of OCH177N

■ Absolute Maximum Ratings

Supply Voltage		-24V~28V
Output OFF Voltage,V_{DS}		28V
Output Maximum Sink Current (AVG)		25mA
Thermal Resistance (SOT23-3L)	$R_{\theta jA}$	255°C/W
	$R_{\theta jC}$	136°C/W
Operating Temperature Range		-40°C ~+150°C
Storage Temperature Range		-65°C ~+150°C
Junction Temperature		+165°C
Lead Temperature (Soldering,10 sec)		+260°C

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