Low Voltage Operation Low Current Consumption Super-small Package



Omnipolar / Unipolar Detection Type Hall Effect Switch ICS-5718 Serieswith Switchable Detection Pole Function

Switchable between omnipolar detection, N pole detection and S pole detection in a single IC due to the input signal to SWP pin

Achieves industry's top class low voltage operation of VDD=1.45V(min.)

Wide hysteresis products which can reduce chattering are also selectable

Switchable detection pole function



Specifications

ltem	S-5718	
Power supply voltage range	V _{DD} =1.45 to 3.6V	
Operation temperature range	Ta=−40 to + 85°C	
Operating cycle (current consumption)	t _{CYCLE} =102.1ms typ. (I _{DD} =1.4 μ A typ.)	
	tcycle=50.5ms typ. (ldd= 2.0μ A typ.)	
	t _{CYCLE} =5.7ms typ. (I _{DD} =12.0 μ A typ.)	
Magnetic sensitivity (hysteresis width)	1.8mT typ. (В _{нуs} =0.7mT typ.)	—
	3.0mT typ. (Внуз=0.8mT typ.)	3.0mT typ. (Внуs=1.3mT typ.)
	4.5mT typ. (B _{HYS} =1.0mT typ.)	4.5mT typ. (В _{НҮS} =2.5mT typ.)
Output form	CMOS output	

Contact our sales office for information on the sample.

See the latest datasheet on each product series for product information.

Low voltage operation



Selectable hysteresis width







Examples of Application Circuits

Switching the SWP pin input signal makes it possible to identify the polarity of magnets in close proximity.



High-accuracy magnetic simulation service reduces your development workload, period, and costs

We offer a magnetic simulation service to verify that your magnet is ideal for your system until your system design is completely finished. By utilizing simulations effectively, it is possible to achieve high-accuracy design and reduce the number of times of prototype production. For more information, contact our sales office.

• Example of a product development flow





ABLIC Inc. www.ablicinc.com

Contact us www.ablicinc.com/en/semicon/sales/

