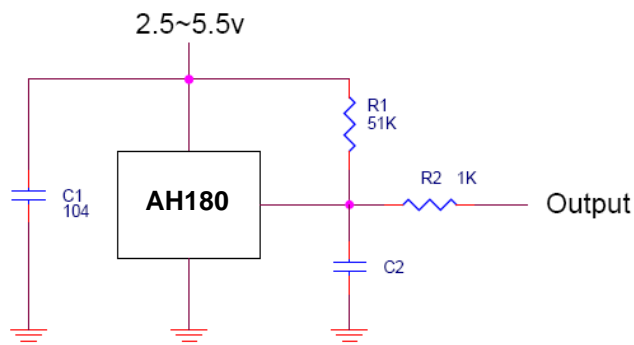


Announcing the AH180 - First in a Series of Micropower Omnipolar Hall Effect Sensor Switches



For Contact-less Applications:

Mobile Clam Shell Cover or Slide Phones – Appliance Door Switch – Metering Water/Gas/Electrical - Laptop Cover Switch - Fitness Equipment – Coffee Makers – Industrial Automation Position Sensing



What is an AH180 Hall Effect Switch?

The AH180 is the first in a new generation of low-voltage, ultra sensitive Hall-Effect switches developed using an advanced CMOS process for use in Contact-less applications. Omnipolar Hall-Effect Switch is activated in the presence of a magnetic field, either North or South Pole. It is turned off in the absence of the magnetic field.

Key Features

- **Micropower Operation:** Developed using advanced CMOS process for low power and using a unique innovative clocking scheme that reduces power consumption and extends battery life by minimizing the "ON" duty cycle in portable application.
- Operates from a 2.5v to 5.5v supply, which makes it ideal for use with either 1-cell lithium-ion type or 2-cell alkaline/zinc type batteries.
- **Omnipolar Operation:** Pole Independent means it can operate with either the presence of a magnet's South or North Pole. This eliminates the need for orientating the magnet's polarity during manufacturing.
- **Chopper Stabilized:** Higher Reliability – improved stability through the use of dynamic offset cancellation, which reduces the residual offset voltage normally caused by physical stress to the device or from temperature dependencies and thermal stress.
- **RF Noise Immunity:** Proprietary on-chip filters help to protect against DC and RF Noise, which are commonly present in electronic communication devices such as Mobile Phones.

Availability

- **Samples:** Now Available!
- **Production Quantity Lead Time:** 8 - 10 weeks
- **Data Sheet NOW Available at:** www.diodes.com or click:
AH180-SNG-7 <http://www.diodes.com/datasheets/AH180.pdf>
AH180-WG-7 <http://www.diodes.com/datasheets/AH180.pdf>
AH180-PL-A <http://www.diodes.com/datasheets/AH180.pdf>

