ANG<mark>SEMI</mark>

Magnetic Sensor IC

Latch Detection High Performance Hall-Effect Sensor IC

• General Description

Using bipolar process, the AS1600 is designed for high performance latch detection hall effect application, such as E-bike, rotor position sensing, brushless DC motor etc. The hall IC integrated an on-chip hall voltage generator for magnetic sensing, a comparator that amplifiers the hall voltage, an open collector output, and a Schmitt trigger to provide switching hysteresis for noise rejection, and a voltage regulator for operation with supply voltage of 3.5V to 60V.

AC1600 is designed to respond to alternating North and South poles. White the magnetic flux density (B) is larger than operate point (B_{OP}), the output will be turned on (low), the output is held until the magnetic flux density (B) is lower than release point (B_{RP}), then turn off (high).

The device is available in SIP-3L Package and is rated over the -40°C to 150°C. the package is RoHS compliant.

Datasheet



AS1600

• Features

- Input Voltage Range : 3.8V to 60V
- Bipolar Latch Operation
- High Performance Bipolar Process Tech.
- Magnetic Sensitivity (typical)
 B_{OP}=40Gauss, B_{RP}=-40Gauss
- Open Collector Output
- Small Solution Size
- RoHS Compliant
- SIP-3L Packages
- -40°C to +150°C Temperature Range

Applications

- BLDC Communication for E-bike
- BLDC Communication for E-Motorcycle
- Automotive, Home appliances, Industrial
- Rotor Position Sensing
- Brushless DC Motor/Fan
- Speed Measurement
- Revolution Counting
- Magnetic Encoder



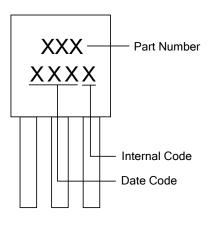
Ordering Information

	AS1600 X X X	
	1 [
Package: M: SIP-3L	Packing B: Bulk	Temperature Grade: Z: -40 ~ 150°C

Part Number	B _{OP} /B _{RP} (Gauss)	Package Type	Package Qty	Temperature	Eco Plan	Lead
AS1600MBZ	±40	SIP-3L	1K/Package	-40∼150° C	RoHS	Cu Sn

Marking Information

SIP-3L



Typical Application Circuit

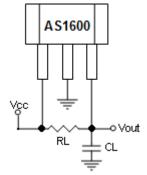


Figure 1, Typical Application Circuit of AS1600