FEATURES

- **On-Chip Hall Sensor**
- **3.5V to 20V Supply Voltage**
- **300mA (avg) Output Sink Current**

APPLICATIONS

- **Dual-Coil Brush-less DC Motor**
- **Dual-Coil Brush-less DC Fan**

GENERAL DESCRIPTION

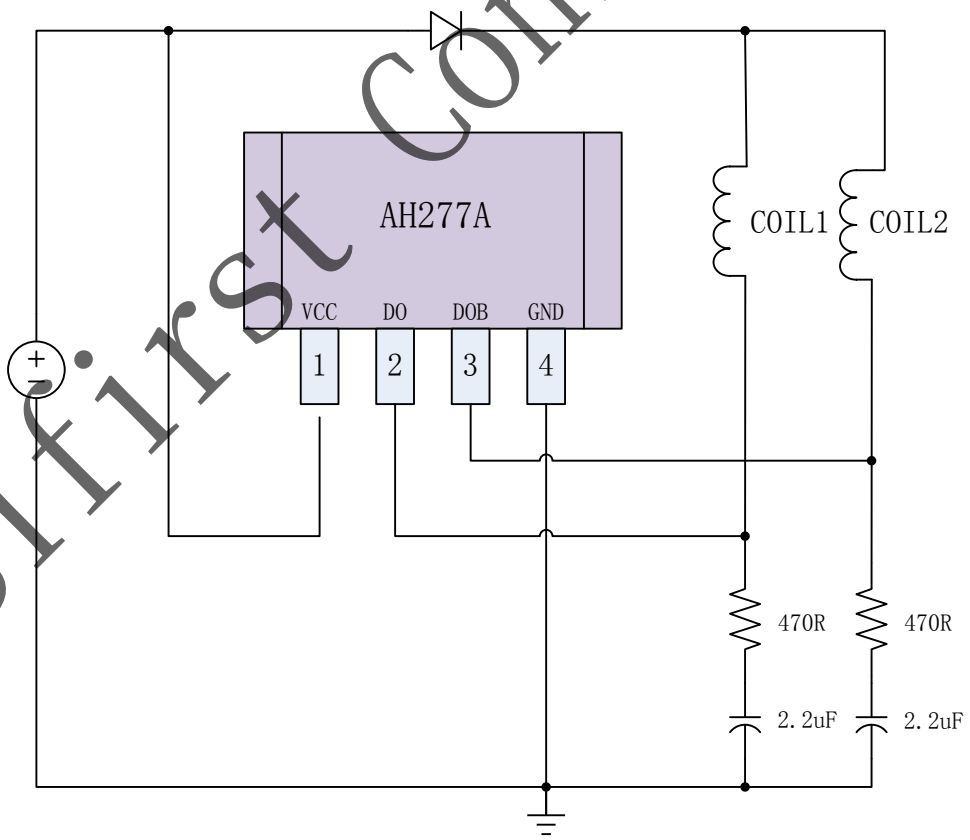
The AH277A is an integrated Hall sensor with output driver designed for electronic commutation of brush-less DC motor applications.

The device includes an on-chip Hall voltage, a Schmitt trigger to provide switching hysteresis for noise rejection, a temperature compensation circuit to compensate the temperature drift of Hall sensitivity and two complementary open-collector drivers for sinking large load current.It also includes an internal band-gap regulator which is used to provide bias voltage for internal circuits.

Placing the device in a variable magnetic field, if the magnetic flux density is larger than threshold BOP, the pin DO will be turned low (on) and pin DOB will be turned high (off). This output state is held until the magnetic flux density reverses and falls below BRP, then causes DO to be turned high (off) and DOB turned low(on).

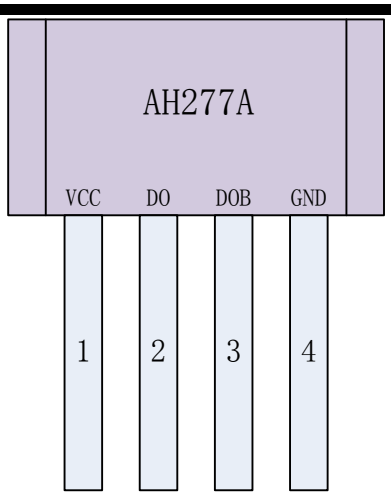
AH277A is available in TO-94(SIP-4L) package.

TYPICAL APPLICATION



Pin Configuration

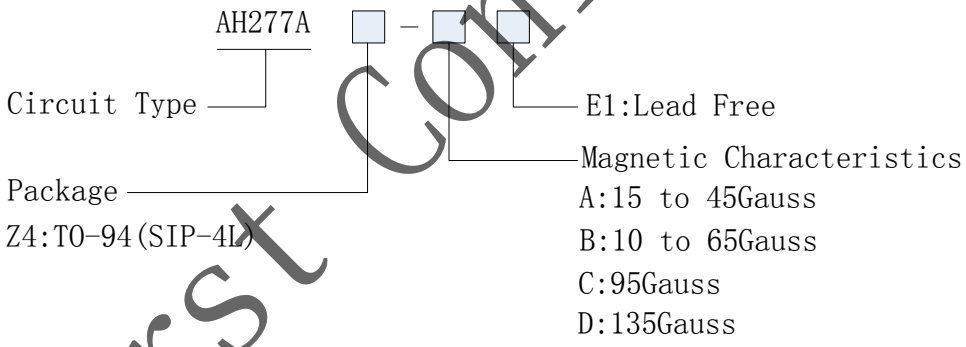
TO94(Top View)



Pin Description

Pin Num	Pin Name	I/O	Description
1	VCC	P	Supply voltage
2	DO	I	Output1
3	DOB	I	Output2
4	GND	P	Ground

Marking Information



Ordering Information

Part Number	Top Mark	Package		Tape & Reel
AH277AZ4	AH277AZ4-AE1	TO94	Green	Yes
	AH277AZ4-BE1			
	AH277AZ4-CE1			
	AH277AZ4-DE1			

applications.