

## Single-phase DC Brushless Motor Driver IC

### ■ GENERAL DESCRIPTION

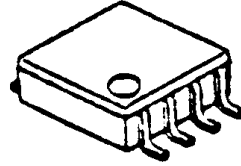
The NJU7326 is a single-phase DC brushless motor driver IC.

It features MOS-FET output for better saturation characteristics.

Slew rate of amplifiers and feedback resistors are optimized to achieve low-noise motor operation.

It is suitable for small fan-motor applications.

### ■ PACKAGE OUTLINE

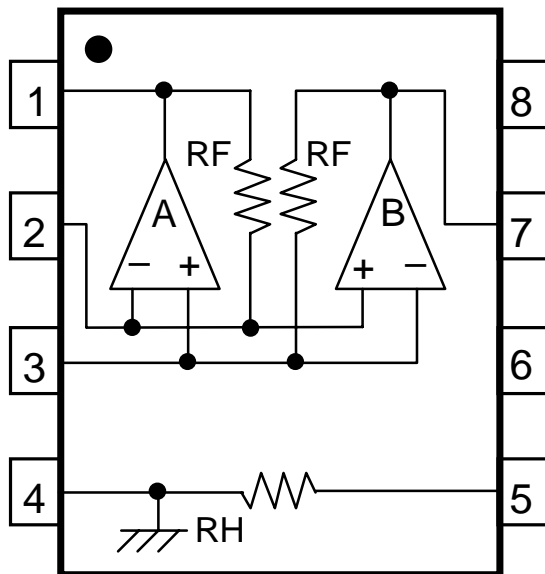


NJU7326R/RB1

### ■ FEATURES

- Single Supply
- Operating Voltage  $V_{DD}=2.4$  to  $5.5V$
- Low Operating Current
- Low Saturation Output Voltage  $V_{sat}=\pm 0.35V$  @  $I_o=\pm 250mA$
- C-MOS Technology
- Package VSP8, TVSP8

### ■ BLOCK DIAGRAM



- 1 : A OUTPUT
- 2 : Reverse INPUT
- 3 : Non-Reverse INPUT
- 4 :  $V_{SS}$
- 5 :  $RH$
- 6 : NC
- 7 : B OUTPUT
- 8 :  $V_{DD}$

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	RATINGS	SYMBOL (unit)	NOTE
Supply Voltage	+7.0	V <sub>DD</sub> (V)	
Input Voltage	-0.3 to V <sub>DD</sub> +0.3	V <sub>ID</sub> (V)	
Storage Temperature Range	-50 to +150	T <sub>stg</sub> (°C)	
Operating Temperature Range	-40 to +85	T <sub>opr</sub> (°C)	
Power Dissipation	400	P <sub>D</sub> (mW)	VSP8/TVSP (Single)

■ RECOMMENDED OPERATING CONDITION

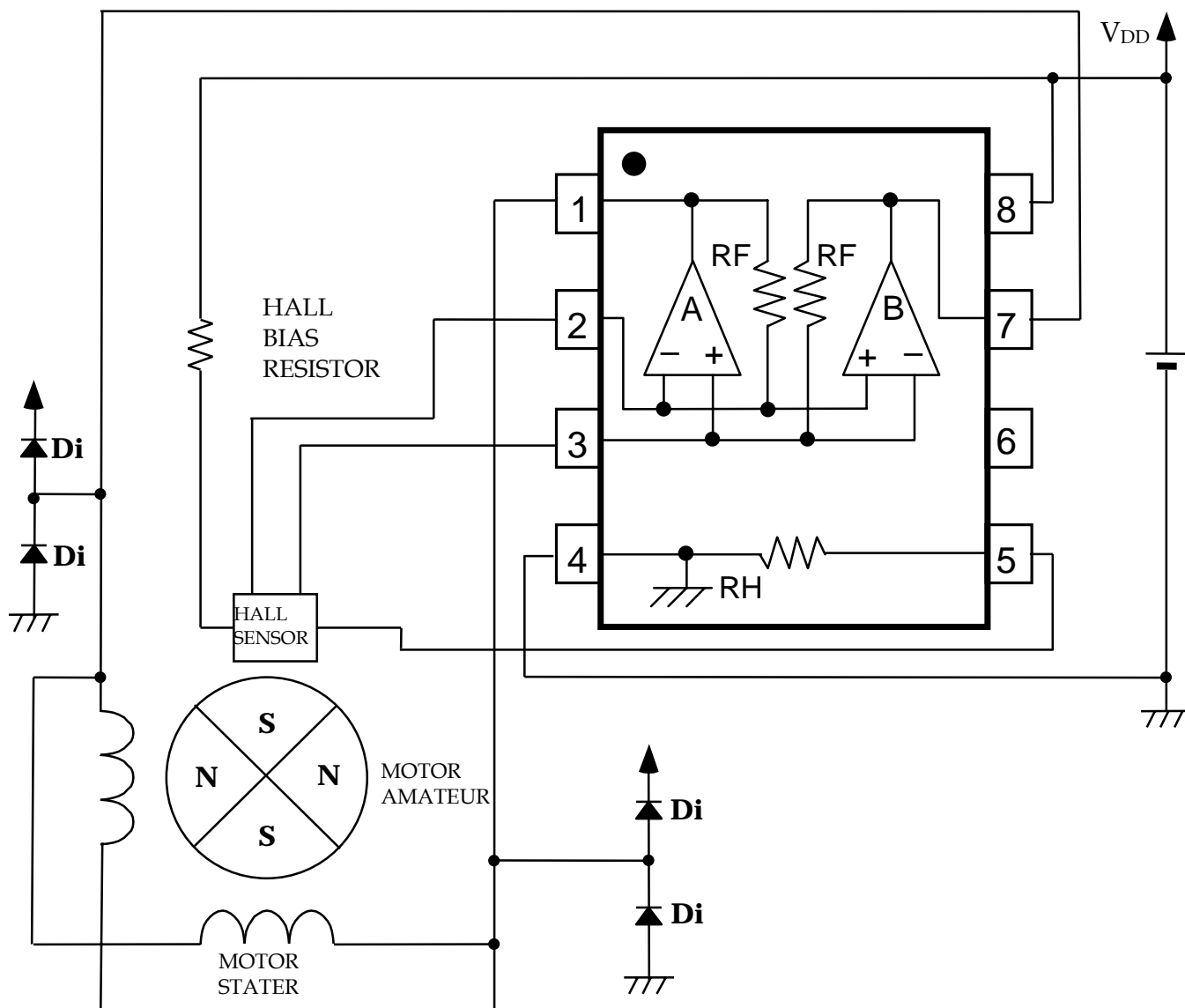
V<sub>DD</sub> = 2.4V to 5.5V

■ ELECTRICAL CHARACTERISTICS

(Ta=25°C, V<sub>DD</sub>=5V)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX	UNIT
Operating Current	I <sub>DD</sub>	No Load Condition : Voltage Follower V <sub>O</sub> =2.5V : 1 circuit	-	3.0	4.0	mA
Input Offset Voltage	V <sub>IO</sub>		-15	-	+15	mV
Input Common Mode Voltage Range	V <sub>ICM</sub>		0.4~4.0	-	-	V
Maximum Output Voltage Range	V <sub>OM+</sub>	I <sub>O</sub> =+250mA	4.55	4.65	-	V
	V <sub>OM-</sub>	I <sub>O</sub> =-250mA	-	0.35	0.45	
Feedback Resistance	R <sub>F</sub>	-	22.0	27.5	33.0	kΩ
Hall Bias Resistance	R <sub>H</sub>	-	240	300	360	Ω

## ■ TYPICAL APPLICATION



Diodes shown in the picture indicate external re-circulating diodes.

Place re-circulating diodes at output terminals depending on the inductive load.

[CAUTION]  
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