

Single-phase DC Brushless Motor Driver IC

■ GENERAL DESCRIPTION

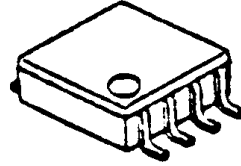
The NJU7326 is a single-phase DC brushless motor driver IC.

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

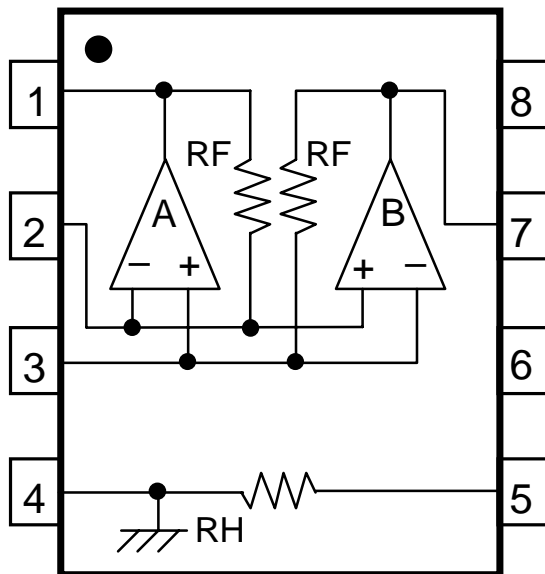


NJU7326R/RB1

■ 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 _{DD} (V)	
Input Voltage	-0.3 to V _{DD} +0.3	V _{ID} (V)	
Storage Temperature Range	-50 to +150	T _{stg} (°C)	
Operating Temperature Range	-40 to +85	T _{opr} (°C)	
Power Dissipation	400	P _D (mW)	VSP8/TVSP (Single)

■ RECOMMENDED OPERATING CONDITION

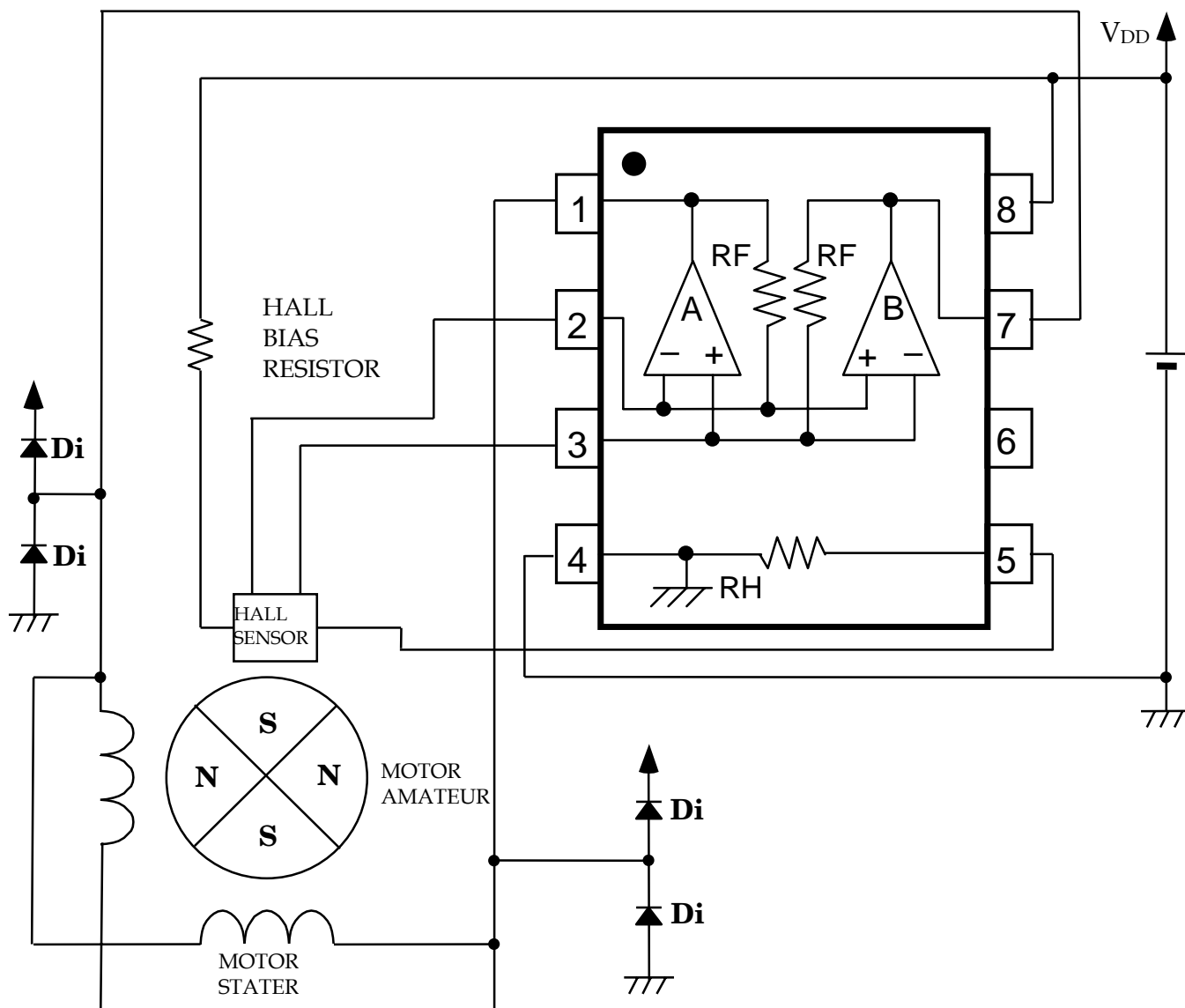
V_{DD} = 2.4V to 5.5V

■ ELECTRICAL CHARACTERISTICS

(Ta=25°C, V_{DD}=5V)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX	UNIT
Operating Current	I _{DD}	No Load Condition : Voltage Follower V _O =2.5V : 1 circuit	-	3.0	4.0	mA
Input Offset Voltage	V _{IO}		-15	-	+15	mV
Input Common Mode Voltage Range	V _{ICM}		0.4~4.0	-	-	V
Maximum Output Voltage Range	V _{OM+}	I _O =+250mA	4.55	4.65	-	V
	V _{OM-}	I _O =-250mA	-	0.35	0.45	
Feedback Resistance	R _F	-	22.0	27.5	33.0	kΩ
Hall Bias Resistance	R _H	-	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.

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