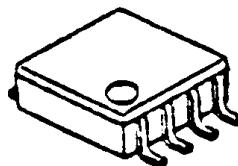


Single-Phase DC Brushless Motor Driver IC

■ GENERAL DESCRIPTION

The NJU7325 is dual power amplifiers.
It features MOS-FET output for better saturation characteristics.
It is suitable for small fan-motor applications.

■ PACKAGE OUTLINE

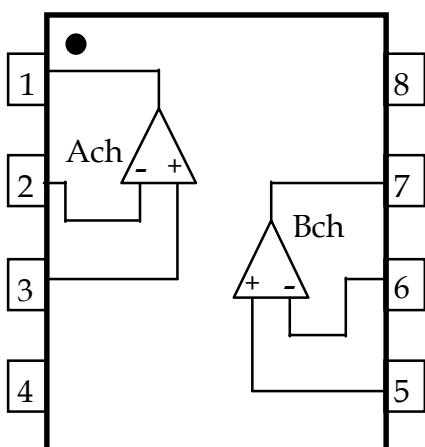


NJU7325R/RB1

■ 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 : A- | INPUT |
| 3 : A+ | INPUT |
| 4 : V _{SS} | |
| 5 : B+ | INPUT |
| 6 : B- | INPUT |
| 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)	
Operating Temperature Range	-40 to +85	T _{opr} (°C)	
Storage Temperature Range	-50 to +150	T _{stg} (°C)	
Power Dissipation	400	P _D (mW)	VSP8/TVSP8 (Single)

NJU7325

■ RECOMMENDED OPERATING CONDITION

$V_{DD} = 2.4V \sim 5.5V$

■ ELECTRICAL CHARACTERISTICS

($T_a=25^{\circ}C$, $V_{DD}=5V$)

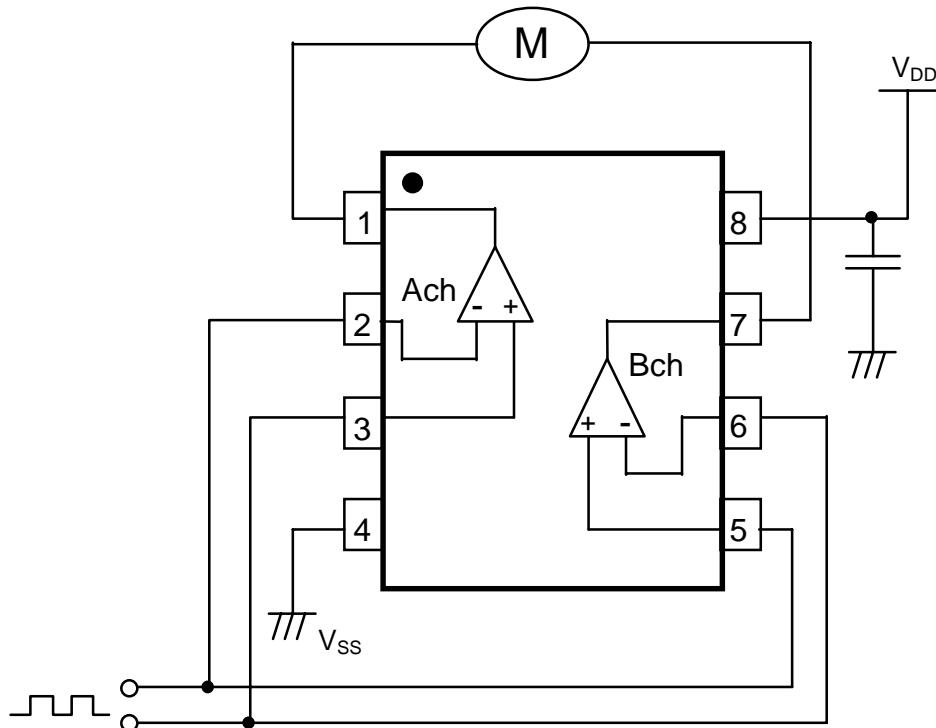
PARAMETER	SYMB OL	CONDITION	MIN.	TYP.	MAX	UNIT
Operating Current	I_{DD}	No Load Condition : Voltage Follower $V_o=2.5V$: 1 circuit	-	3.0	4.0	mA
Input Offset Voltage	V_{IO}	-	-15	-	+15	mV
Input Offset Current	I_{IO}	-	-	10	-	pA
Input Bias Current	I_{IB}	-	-	10	-	pA
Input Impedance	R_{IN}	-	-	10^{12}	-	Ω
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
		$I_o=-250mA$	-	0.35	0.45	
Large-Signal Voltage gain	AV	-	55	-	-	dB
Common Mode Rejection ration	CMRR	$V_{ICM}=0.4$ to $4.0V$	53	-	-	dB
Supply Voltage Rejection ration	PSRR	$V_{DD}=4.5$ to $5.5V$	55	-	-	dB
Unity Gain Bandwidth	F_T	$C_L=10pF$; Open Loop	-	1.5	-	MHz
Slew Rate	SR	Voltage Follower , $R_L=16.5\Omega$	-	1	-	V/ μ s

Note1) Oscillation margin of NJU7325 will be narrow if the application features light load-current and

low-gain (i.e. voltage follower). Maintain the value of stray capacitance at the output terminal with less than 100pF to prevent the oscillation.

Note2) Place decoupling-capacitor near V_{SS} and V_{DD} pins.

■ Application Circuit



Note) Place decoupling-capacitor near V_{SS} and V_{DD} pins.

[CAUTION]

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