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NJM13404

SINGLE SUPPLY DUAL OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

The NJM13404 is single-supply dual operational amplifier, which can operate from 2V supply. The features are low offset voltage, low bias current, high slew-rate, free cross-over distortion through the AB class output stage.

The package lineup is DIP, DMP and others compact, which is SON, so that the NJM13404 is suitable for audio for low voltage operation and any other kind of signal amplifier.

■ FEATURES

- Operating Voltage (+2V~+14V)
- Slew Rate (1.2V/ μ s typ.)
- Operating Current (3.5mA typ.)
- Bipolar Technology
- Package Outline

(+2V~+14V)
(1.2V/ μ s typ.)
(3.5mA typ.)
DIP8,DMP8,EMP8,SSOP8,
VSP8,SIP8,SON8(PRELIMINARY)

■ PACKAGE OUTLINE



NJM13404D



NJM13404M



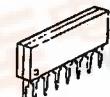
NJM13404E



NJM13404V

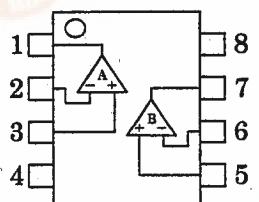


NJM13404R

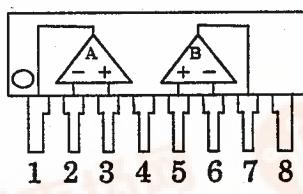


NJM13404L

■ PIN CONFIGURATION



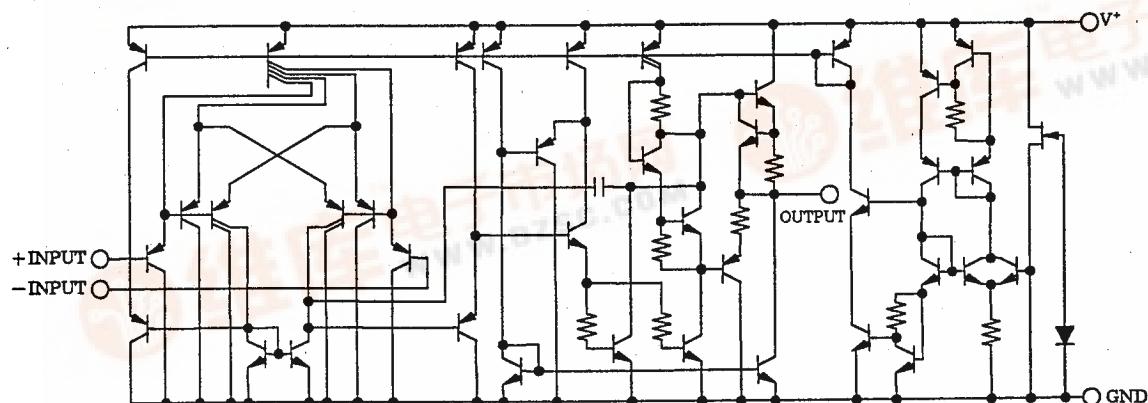
NJM13404D/13404M
NJM13404E/13404V/13404R
NJM13404x(PRELIMINARY)



NJM13404L

PIN FUNCTION
1. A OUTPUT
2. A- INPUT
3. A + INPUT
4. GND
5. B + INPUT
6. B- INPUT
7. B OUTPUT
8. V⁺

■ EQUIVALENT CIRCUIT (1/2 Shown)



■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	15	V
Differential Input Voltage	V _{ID}	14	V
Input Voltage	V _{IC}	-0.3~+14	V
Power Dissipation	P _D	(DIP8) 500 (DMP8) 300 (EMP8) 300 (SSOP8) 250 (VSP8) 320 (SIP8) 800 (SON8) U.D	mW
Operating Temperature Range	T _{opr}	-40~+85	°C
Storage Temperature Range	T _{stg}	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS (V⁺=5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V _{opr}		2	—	14	V
Input Offset Voltage	V _{IO}	R _S =0Ω	—	0.5	4	mV
Input Offset Current	I _{IO}		—	5	50	nA
Input Bias Current	I _B		—	25	150	nA
Large Signal Voltage Gain	A _V	R _L ≥2kΩ	88	100	—	dB
Maximum Output Voltage Swing	V _{OM}	R _L =2kΩ	4.0	4.2	—	V
Input Common Mode Voltage Range	V _{ICM}		0~3.5	—	—	V
Common Mode Rejection Ratio	CMR		70	90	—	dB
Supply Voltage Rejection Ratio	SVR		80	94	—	dB
Output Source Current	I _{SOURCE}	V _{IN} ⁺ =1V, V _{IN} ⁻ =0V	20	35	—	mA
Output Sink Current	I _{SINK}	V _{IN} ⁺ =0V, V _{IN} ⁻ =1V	10	30	—	mA
Operating Current	I _{CC}	R _L =∞	—	2.0	3.5	mA
Slew Rate	SR	V ⁺ /V ⁻ =±2.5V, R _L =2kΩ, A _V =0dB, f=1kHz	—	1.2	—	V/μs
Unity Gain Bandwidth	f _T	R _L =2kΩ	—	2.0	—	MHz
Total Harmonic Distortion	THD	R _L =2kΩ, A _V =40dB, f=20kHz, V _O =1.5Vrms	—	0.2	—	%

NJM13404

MEMO

[CAUTION]
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