NJM074/084

QUAD J-FET INPUT OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

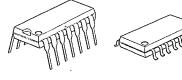
The NJM074/084 are quad JFET input operational amplifiers. The NJM074/084 have the same electical characteristics of NJM072B/082B except supply current.

- FEATURES
- Operating Voltage .
- J-FET Input

JRC

 $(\pm 4V \sim \pm 18V)$

- High Input Resistarce
- Low Input Bias Current
- High Slew Rate
- Wide Unity Gain Bandwidth
- Package Outline
- Bipolar Technology : 🌰
- $(10^{12}\Omega \text{ typ.})$ (30pA typ.) (13V/ µs typ.) (3MHz typ.)
- DIP14, DMP14, SSOP14



NJM074D NJM084D

PACKAGE OUTLINE

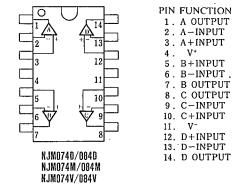


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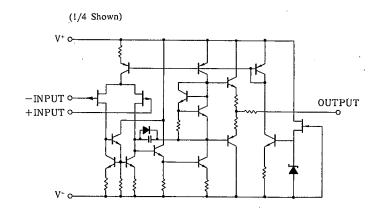




PIN CONFIGURATION



EQUIVALENT CIRCUIT



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NJM074/084

ABSOLUTE MAXIMUM RATINGS

RATINGS PARAMETER SYMBOL UNIT V*/Vv Supply Voltage ± 18 v Differential Input Voltage V_{ID} ± 30 Input Voltage Vic ± 15 (note 1) v Pd (DIP14) 700 mW (DMP14) 700(note 2) . Power Dissipation mW (SSOP14) 300 mW **Operating Temperature Range** Topr -20~+75 °C Storage Temperature Range Tstg $-40 \sim +125$

(note 1) For supply voltage less than $\pm 15V$ the absolute maximum input voltage is equal to the supply voltage. (note 2) at on PC board

ELECTRICAL CHARACTERISTICS (Ta =+25°C, $V^+/V^-=\pm 15V$)

MIN. TYP. MAX. UNIT PARAMETER SYMBOL TEST CONDITION Input Offset Voltage $R_s = 50\Omega$ 3(5) 10(15) mV V_{10} 50(200) pА Input Offset Current 5 I_{IO} _ 30 200(400) pА Input Bias Current Iв _ Input Common Mode Voltage Range V_{ICM} ± 10 _ v Maximum Peak-to-peak Output Voltage Swing VOPP $R_L = 10k\Omega$ 24 27 V_{p-p} dB Large-Signal Voltage Gain A_{V} $R_L \ge 2 k\Omega$, $V_O = \pm 10V$ 88 106 3 MHz Unity Gain Bandwidth \mathbf{f}_{T} ____ 1012 Ω R_{IN} ____ Input Resistance dB 70 76 Common Mode Rejection Ratio CMR $R_{S}{\leq}10k\Omega$ ____ dB 70 76 SVR $R_{S} \leq 10 k\Omega$ Supply Voltage Rejection Ratio 10(11.2) mΑ **Operating Current** 6 I_{CC} ____ 13 V/µs Slew Rate SR ____ μVrms $R_s = 100\Omega$, B.W. = 10~10kHz 4 Equivalent Input Noise Voltage V_{NI} _____

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(Ta=25℃)

()Applies to NJM084

MEMO

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