

3V AUTO-REVERSE DUAL PRE-AMPLIFIER

■ GENERAL DESCRIPTION

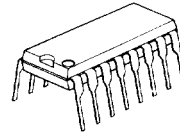
NJM2067 is dual pre-amplifier including channel switch which was designed for 3V Auto-reverse Head Phone Stereo.

■ PACKAGE OUTLINE

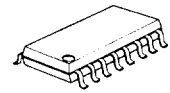
■ FEATURES

- Internal Switch of Input Channel
- Package Outline
- Bipolar Technology

DIP16, DMP16

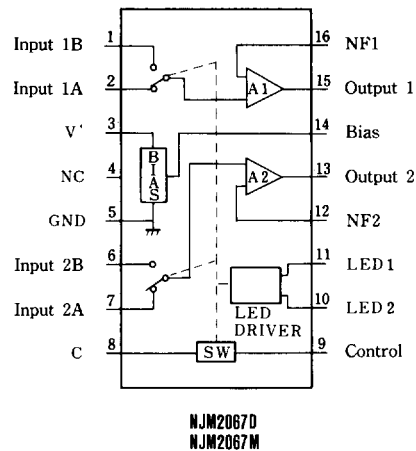


NJM2067D



NJM2067M

■ PIN CONFIGURATION



■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

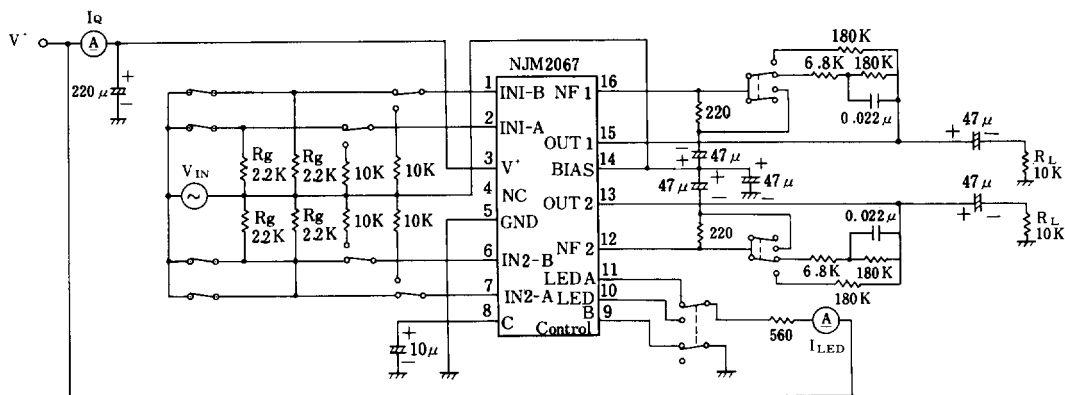
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	4.5	V
Power Dissipation	P _D	(DIP16) 700 (DMP16) 350	mW
Operating Temperature Range	T _{opr}	-20 ~ +75	°C
Storage Temperature Range	T _{stg}	-40 ~ +125	°C

■ ELECTRICAL CHARACTERISTICS

(Ta=25°C, V⁺=3V, R_L=10kΩ)

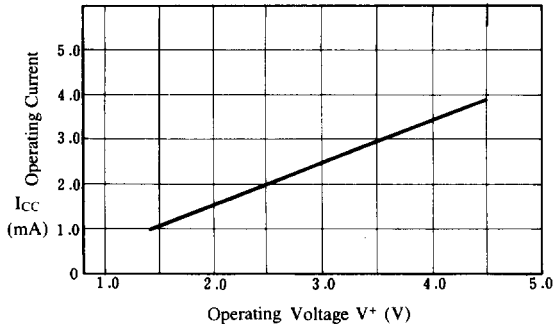
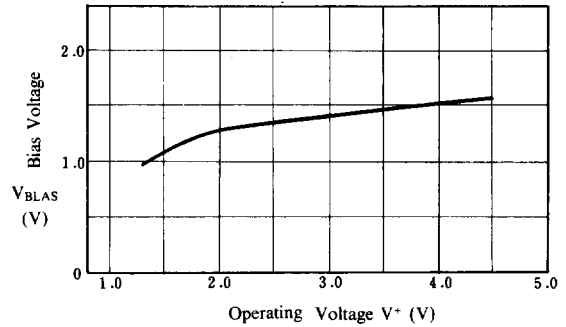
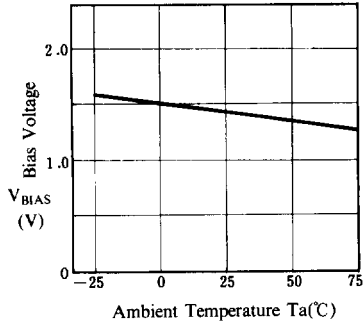
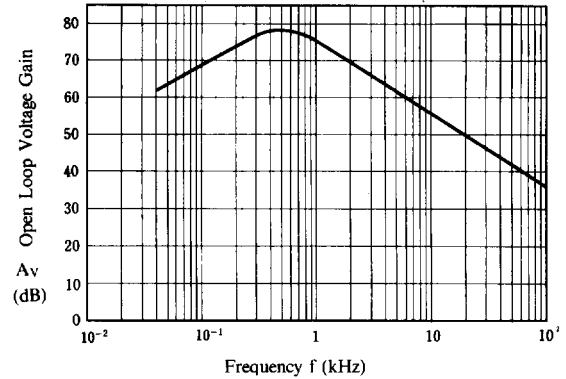
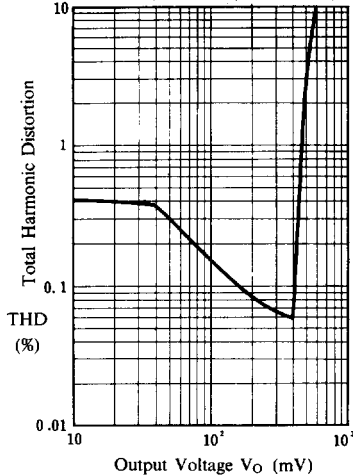
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Current	I _{CC}	V _{IN} =0V	0.9	2.3	4.0	mA
Open Loop Voltage Gain	G _V	V _O =-10dBm, f=1kHz	70	80	—	dB
Equivalent Input Noise Voltage	V _{NI}	V _{IN} =0, R _e =2.2kΩ	—	1.2	—	μVrms
Maximum Output Voltage	V _{OM}	THD=1%, f=1kHz	250	450	—	mVrms
Crosstalk between Channels	CST	Other channels V _O =-10dBm, f=1kHz	55	65	—	dB
Crosstalk between A and B Channel	CT	Other channels V _O =-10dBm, f=1kHz	55	65	—	dB
Total harmonic Distortion	THD	V _O =0.2Vrms, f=1kHz	—	0.08	0.15	%
Input Bias Current	I _B	V _{IN} =0Vrms	—	100	310	nA
Maximum LED Current	I _{LED}		—	5	—	mA

■ TEST CIRCUIT





■ TYPICAL CHARACTERISTICS

**Operating Current
vs. Operating Voltage** $(V_{IN}=0V, T_a=25^{\circ}C)$ **Bias Voltage
vs. Operating Voltage** $(T_a=25^{\circ}C)$ **Bias Voltage
vs. Ambient Temperature** $(V^+=3V)$ **Open Loop Voltage Gain
vs. Frequency** $(V^+=3V, V_o=-10dBm, T_a=25^{\circ}C)$ **Total Harmonic Distortion
vs. Output Voltage** $(V^+=3V, f=1kHz, T_a=25^{\circ}C)$ **Maximum Output Voltage Swing
vs. Operating Voltage** $(f=1kHz, THD=1\%, T_a=25^{\circ}C)$ 