



3V AUTO-REVERSE DUAL PRE-AMPLIFIER

GENERAL DESCRIPTION

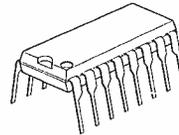
NJM2067 is dual pre-amplifier including channel switch which was designed for 3V Auto-reverse Head Phone Stereo.

PACKAGE OUTLINE

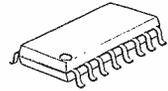
FEATURES

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

DIP16, DMP16

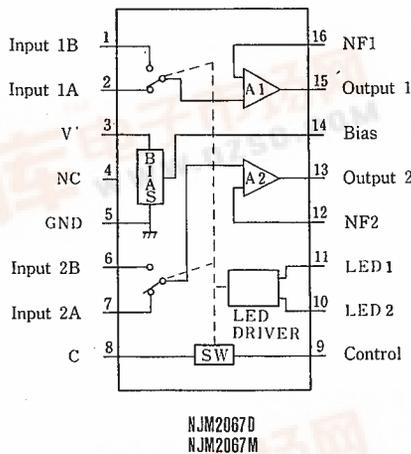


NJM2067D



NJM2067M

PIN CONFIGURATION



5

ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V+	4.5	V
Power Dissipation	Pd	(DIP16) 700	mW
		(DMP16) 350	mW
Operating Temperature Range	Topr	-20~+75	°C
Storage Temperature Range	Tstg	-40~+125	°C

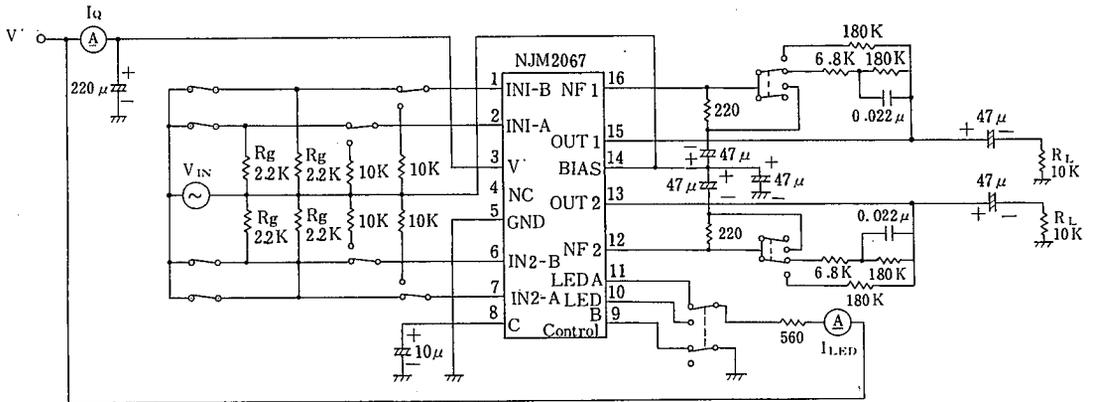
ELECTRICAL CHARACTERISTICS

(Ta=25°C, V+=3V, RL=10kΩ)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Current	ICC	VIN=0V	0.9	2.3	4.0	mA
Open Loop Voltage Gain	GV	VO=-10dBm, f=1kHz	70	80	—	dB
Equivalent Input Noise Voltage	VNI	VIN=0, RS=2.2kΩ	—	1.2	—	μVrms
Maximum Output Voltage	VOM	THD=1%, f=1kHz	250	450	—	mVrms
Crosstalk between Channels	CST	Other channels VO=-10dBm, f=1kHz	55	65	—	dB
Crosstalk between A and B Channel	CT	Other channels VO=-10dBm, f=1kHz	55	65	—	dB
Total harmonic Distortion	THD	VO=0.2Vrms, f=1kHz	—	0.08	0.15	%
Input Bias Current	IB	VIN=0Vrms	—	100	310	nA
Maximum LED Current	ILED		—	5	—	mA

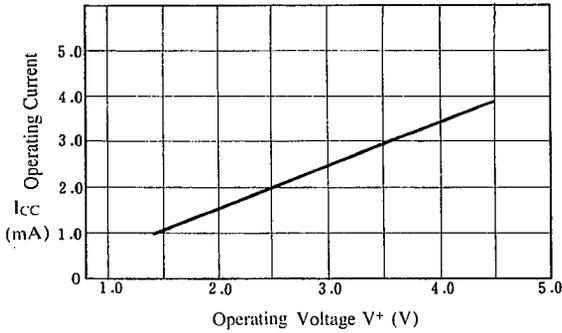


■ TEST CIRCUIT

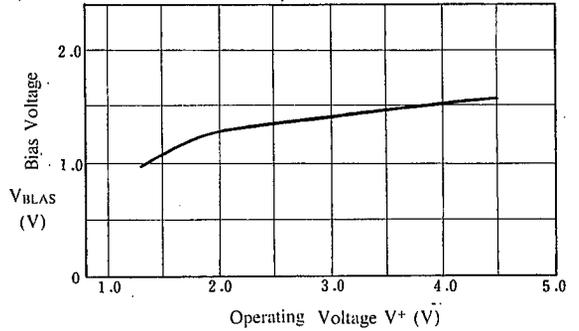


■ TYPICAL CHARACTERISTICS

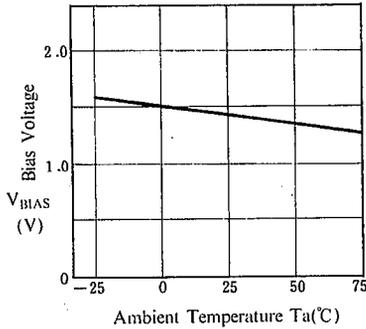
Operating Current vs. Operating Voltage
($V_{IN}=0V$, $T_a=25^\circ C$)



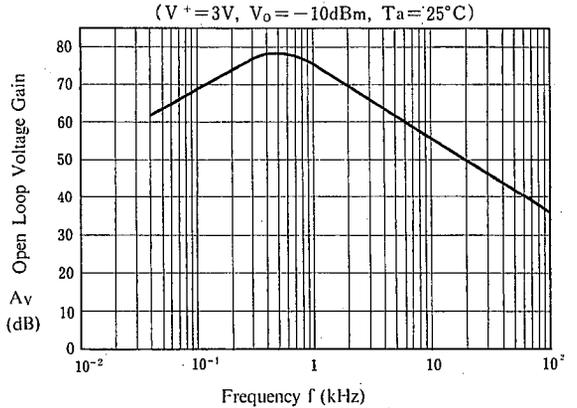
Bias Voltage vs. Operating Voltage
($T_a=25^\circ C$)



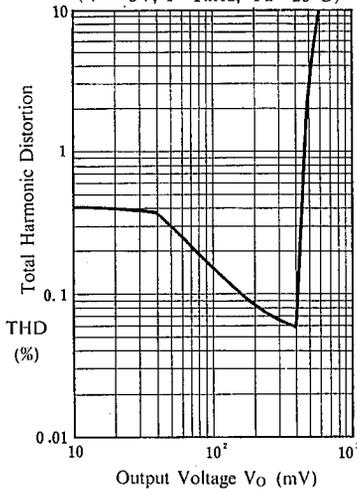
Bias Voltage vs. Ambient Temperature
($V^+=3V$)



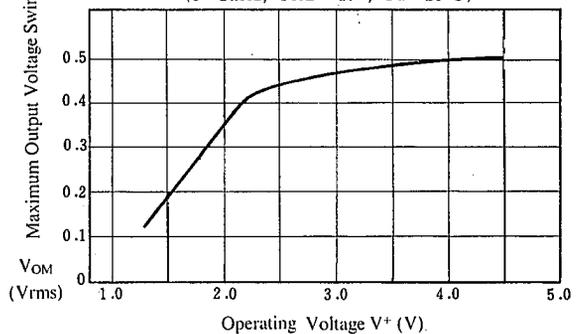
Open Loop Voltage Gain vs. Frequency
($V^+=3V$, $V_o=-10dBm$, $T_a=25^\circ C$)



Total Harmonic Distortion vs. Output Voltage
($V^+=3V$, $f=1kHz$, $T_a=25^\circ C$)



Maximum Output Voltage Swing vs. Operating Voltage
($f=1kHz$, $THD=1\%$, $T_a=25^\circ C$)



NJM2067

MEMO

[CAUTION]
The specifications on this databook are only given for information, without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.