

HAEDPHONE AMPLIFIER for CD-ROM

■ GENERAL DESCRIPTION

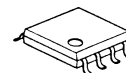
The **NJM2768** is a headphone amplifier designed for CD-ROM.

It includes 0dB closed loop gain and mute circuit which require few external component.

The **NJM2768** realizes very low turn-noise at mute mode.

It is suitable for CD-ROM , and other general audio headphone amplifier application.

■ PACKAGE OUTLENE

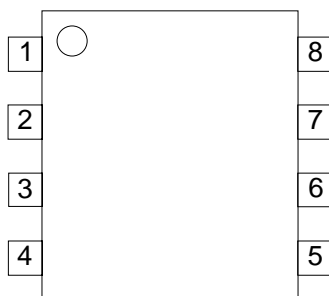


NJM2768M

■ FEATURES

- Operating Voltage 4.5-5.5V
- Operating Current 2mA typ., at $V^+ = 5V$
- Fixed Gain 0dB typ.
- Stereo Headphone Output
- Internal Mute Circuit
- Bipolar Technology
- Package Outline DMP8

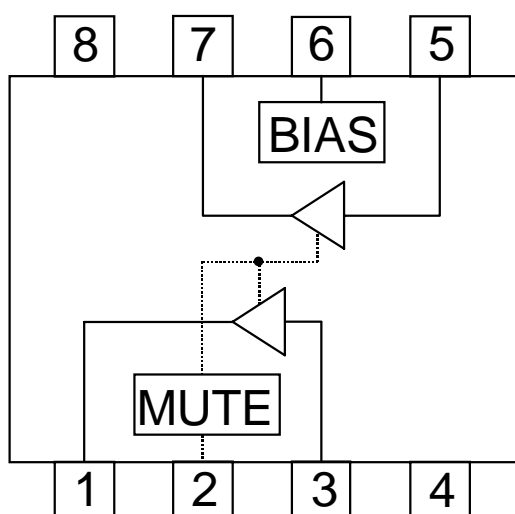
■ PIN CONFIGURATION



PIN FUNCTION

- 1.OUT1
- 2.MUTE
- 3.IN1
- 4.GND
- 5.IN2
- 6.BIAS
- 7.OUT2
- 8. V^+

■ BLOCK DIAGRAM



■ ABSOLUTE MAXMUM RANGE (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	+7	V
Power Dissipation	P _D	(DMP8) 375 750 (note)	mW
Operating Temperature Range	T _{opr}	-40 to +85	°C
Storage Temperature Range	T _{stg}	-50 to +150	°C

(note)At on PC board

■ ELECTRICAL CHARACTERISTICS (V⁺=5.0V, Vin=0dBV, f=1kHz, R_L=32Ω, Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V ⁺		4.5	5.0	5.5	V
Operating Current	I _{CC}	No Signal	-	2.0	4.0	mA
Reference Voltage	V _{ref}	No Signal	-	2.1	-	V
Closed Loop Gain	G _V		-1	0	1	dB
Channel Balance	ΔG _V		-0.5	0	+0.5	dB
Output Power	P _{O1}	R _L =32Ω, THD=0.1%	30	50	-	mW
	P _{O2}	R _L =16Ω, THD=0.1%	40	100	-	mW
Total Harmonic Distortion	THD		-	0.02	0.1	%
Output Noise Voltage	V _{no}	R _g =0Ω, A-Weighted	-	-104 (6.3)	-94 (20)	dBV (μVrms)
Mute Attenuation	ATT	V _o /V _{in}	-	-80	-70	dB
Channel Separation	CS		90	110	-	dB
Ripple Rejection Ratio	RR	V _{ripple} =-20dBV, R _g =0Ω	-	70	-	dB
Input Voltage H-level	V _{IH}		2.0	-	V ⁺	V
Input Voltage L-level	V _{IL}		0.0	-	0.3	V

■ CONTROL PIN INFOMETION

PARAMETER	CONTROL SIGNAL	OPERATING CONDITION
MUTE ON	L	NON-SIGNAL
MUTE OFF	H	OUTPUT SIGNAL

■ TYPICAL APPLICATION

