HAEDPHONE AMPLIFIER for CD-ROM

■ GENERAL DESCRPTION

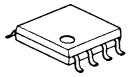
The **NJM2768** is a headphone amplifier designed for CD-ROM.

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

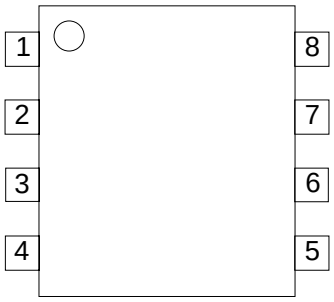


NJM2768M

■ FEATURES

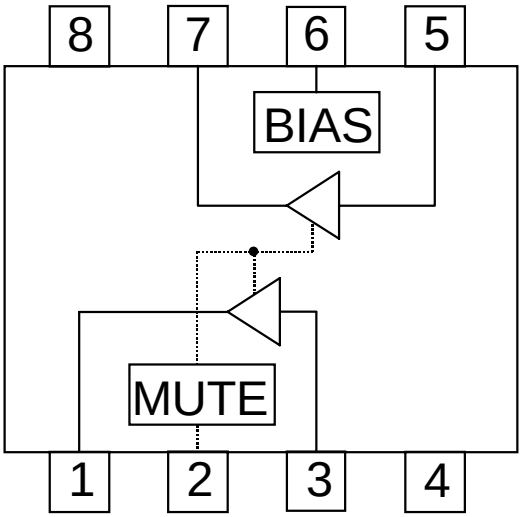
- ●Operating Voltage 4.5-5.5V
- ●Operating Current 2mA typ., at V^+=5V
- ●Fixed Gain 0dB typ.
- ●Stereo Headphone Output
- ●Internal Mute Circuit
- ●Bipolar Technology
- ●Package Outline DMP8

■ 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	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-50 to +150	°C

(note)At on PC board

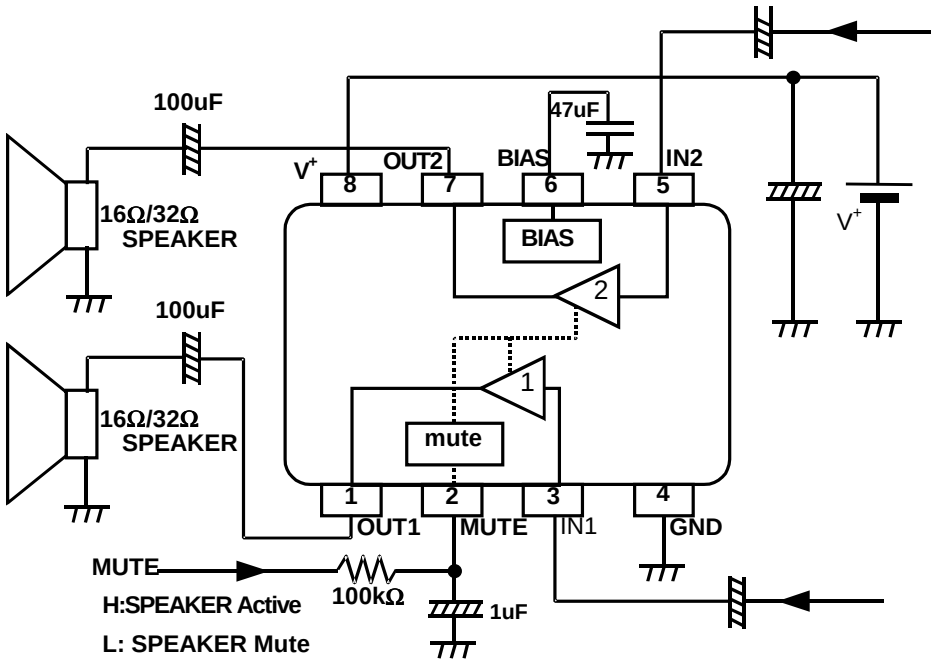
■ ELECTRICAL CHARACTERISTICS (V^+=5.0V,Vin=0dBV,f=1kHz,R_L=32Ω,Ta=25°C unless otherwise specified)

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	Vref	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=1%	30	50	-	mW
	P_O2	R_L=16Ω, THD=1%	40	100	-	mW
Total Harmonic Distortion	THD		-	0.02	0.1	%
Output Noise Voltage	Vno	Rg=0Ω, A-Weighted	-	-104 (6.3)	-94 (20)	dBV (μVrms)
Mute Attenuation	ATT	Vo/Vin	-	-80	-70	dB
Channel Separation	CS		90	110	-	dB
Ripple Rejection Ratio	RR	Vripple=-20dBV, Rg=0Ω	-	70	-	dB
Input Voltage H-level	V_{IH}		2.0	-	V^+	V
Input Voltage L-level	V_{IL}		0.0	-	0.3	V

■ COMTROL PIN INFOMETION

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

■ TYPICAL APPLICATION



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