DATA SHEET

Part No.	AN17020A
Package Code No.	*QFN016 - P - 0304

SEMICONDUCTOR COMPANY MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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AN17020A Silicon Monolithic Bipolar IC

Features

• Headphone amplifier IC HP / Line Control Function, Mute Function

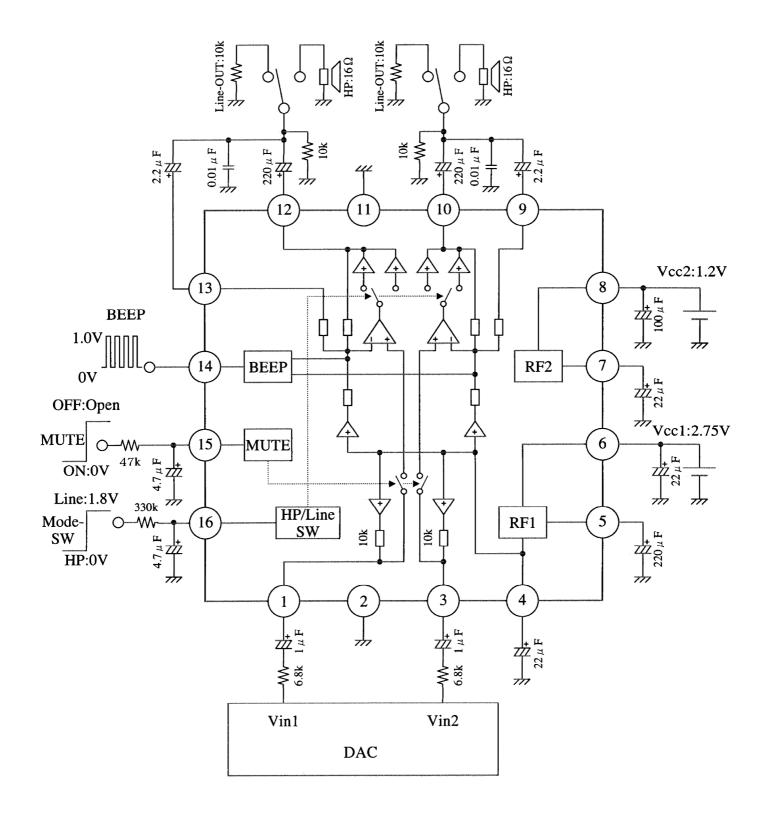
Application

• Low Frequency Amplifier

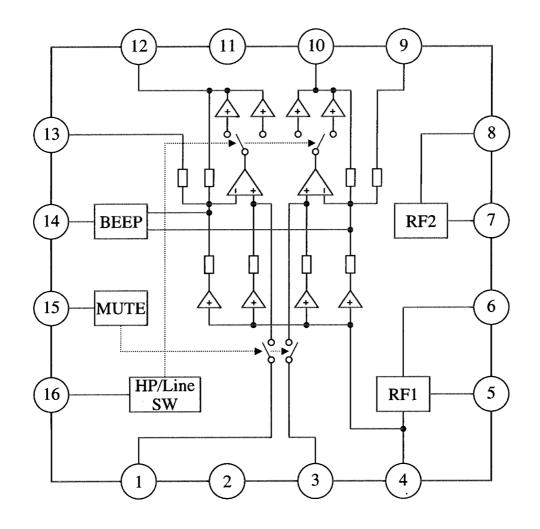
Package

• Quadrangle - 16Pin Plastic Package (QFN type)

Application Circuit



Block Diagram



Pin Descriptions

Pin No.	Function	Pin No.	Function
1	Ch.1 input	9	Ch.2 sense output
2	GND (Input)	10	Ch.2 power output
3	Ch.2 input	11	GND (Output)
4	Half V _{CC1} reference voltage	12	Ch.1 power output
5	Ripple filter	13	Ch.1 sense output
6	V _{CC1}	14	BEEP output
7	Half V _{CC2} reference voltage	15	Muting output
8	V _{CC2}	16	HP / Line control

Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Storage temperature	T _{stg}	-55 to +150	°C	*1
2	Operating ambient temp	T _{opr}	-25 to +75	°C	
3	Operating ambient atmospheric pressure	P _{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Ра	
4	Operating constant gravity	G _{opr}	9 810	m/s ²	
5	Operating shock	S _{opr}	4 900	m/s ²	
6	Supply voltage 1	V _{CC1}	4.6	V	
7	Supply current 1	I _{CC1}	100	mA	
8	Supply voltage 2	V _{CC2}	4.6	V	
9	Supply current 2	I _{CC2}	200	mA	
10	Power dissipation	P _D	292	mW	*2

Note) *1: Ta = 25°C except storage temperature and operating ambient temperature.

*2 : At Ta = 75°C on PCB of the standard, 50 mm \times 50 mm \times 0.8 tmm glass-epoxy.

Operating Supply Voltage Range

Operating Supply Voltage Range	V _{CC1}	2.0 to 4.5
	V _{CC2}	0.9 to 4.5

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