DATA SHEET

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

SEMICONDUCTOR COMPANY MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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AN17020A Panasonic

AN17020A

Silicon Monolithic Bipolar IC

■ Features

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

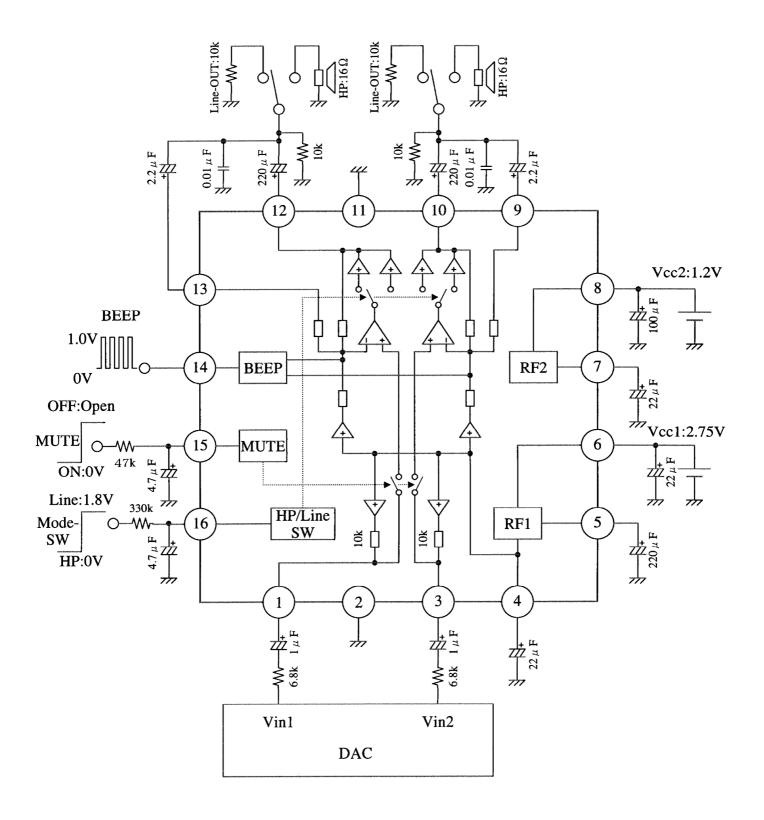
Application

• Low Frequency Amplifier

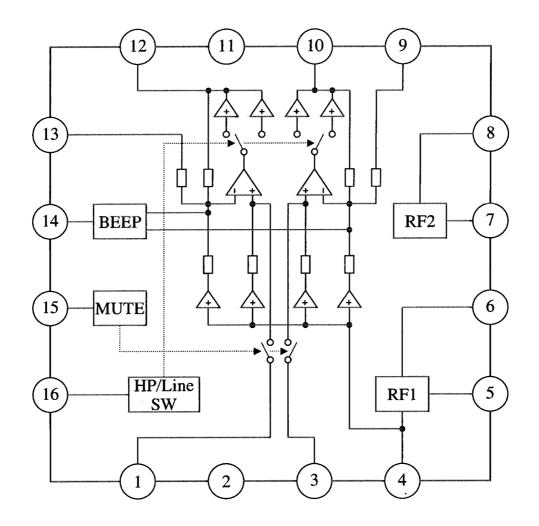
■ Package

• Quadrangle - 16Pin Plastic Package (QFN type)

■ Application Circuit



■ Block Diagram



■ Pin Descriptions

Pin No.	Function	
1	Ch.1 input	
2	GND (Input)	
3	Ch.2 input	
4	Half V _{CC1} reference voltage	
5	Ripple filter	
6	V _{CC1}	
7	Half V _{CC2} reference voltage	
8	V _{CC2}	

Pin No.	Function	
9	Ch.2 sense output	
10	Ch.2 power output	
11	GND (Output)	
12	Ch.1 power output	
13	Ch.1 sense output	
14	BEEP output	
15	Muting output	
16	HP / Line control	

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■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Storage temperature	$T_{\rm stg}$	-55 to +150	°C	*1
2	Operating ambient temp	T_{opr}	-25 to +75	°C	
3	Operating ambient atmospheric pressure	P _{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	
4	Operating constant gravity	G_{opr}	9 810	m/s ²	
5	Operating shock	$S_{ m opr}$	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) $*1: Ta = 25^{\circ}C$ except storage temperature and operating ambient temperature.

■ Operating Supply Voltage Range

Oncepting Symply Voltage Bongs	V_{CC1}	2.0 to 4.5
Operating Supply Voltage Range	V_{CC2}	0.9 to 4.5

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

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