DATA SHEET

Part No.	AN17020B
Package Code No.	SSOP016-P-0225E

Contents

AN17020B

Headphone amplifier IC

■ Features

- HP/line control function, mute function

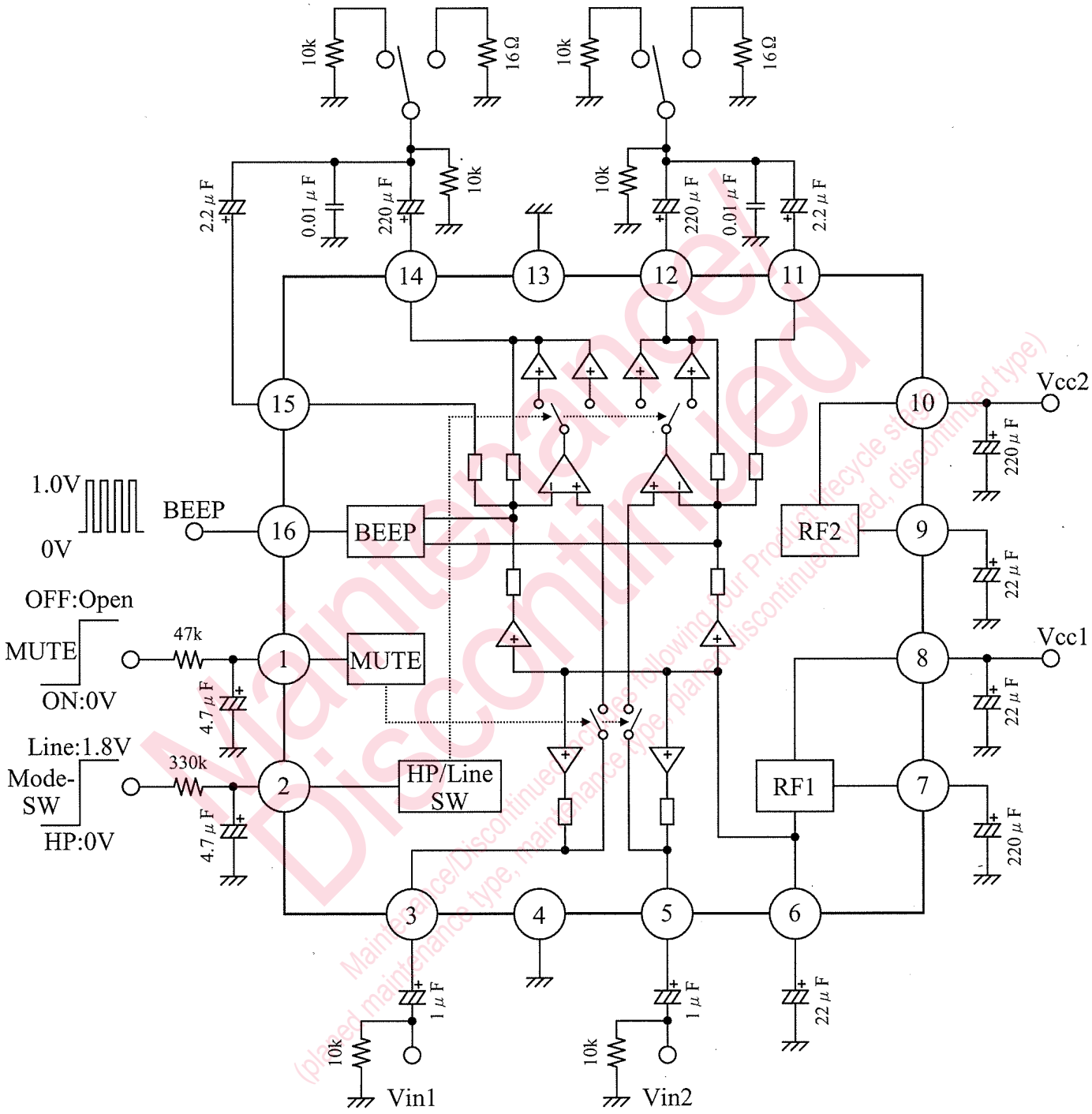
■ Application

- Low frequency amplifier

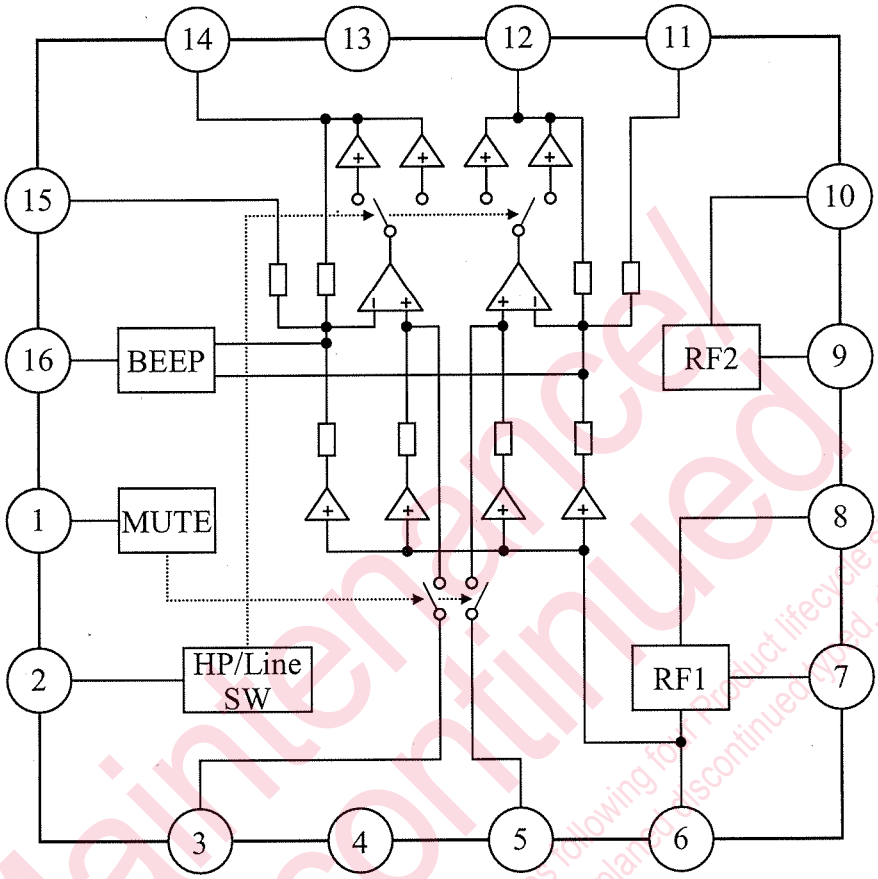
■ Package

- DIL-16 pin plastic package (SO type)

■ Application Circuit Example



■ Block Diagram



■ Pin Descriptions

Pin No.	Description	Pin No.	Description
1	Muting control	9	Half V_{CC2} reference voltage
2	HP/line control	10	V_{CC2}
3	Ch.1 input	11	Ch.2 sense output
4	GND (input)	12	Ch.2 power output
5	Ch.2 input	13	GND (output)
6	Half V_{CC1} reference voltage	14	Ch.1 power output
7	Ripple filter	15	Ch.1 sense output
8	V_{CC1}	16	Beep output

■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V_{CC1}	4.6	V	—
2		V_{CC2}	4.6		—
3	Supply current	I_{CC1}	100	mA	—
4		I_{CC2}	200		—
5	Power dissipation	P_D	253	mW	*1
6	Storage temperature	T_{stg}	–55 to +150	°C	*2
7	Operating ambient temperature	T_{opr}	–25 to +75	°C	*2
8	Operating ambient atmospheric pressure	P_{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	—
9	Operating constant gravity	G_{opr}	9 810	m/s^2	—
10	Operating shock	S_{opr}	4 900	m/s^2	—

Note) *1: T_a = 75°C. For the independent IC without a heat sink.
*2: Except for the storage temperature and operating ambient temperature, all ratings are for T_a = 25°C.

■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Operating Supply Voltage Range	V_{CC1}	2.0 to 4.5	V	—
	V_{CC2}	0.9 to 4.5		—

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