

DATA SHEET

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Package Code No.	HSIP012-P-0000E

SEMICONDUCTOR COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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AN17813A

Audio power amplifier IC

■ Features

- Dual 7.5 W + single 14 W audio power amplifier
- Built-in muting circuit
- Incorporating protection circuit

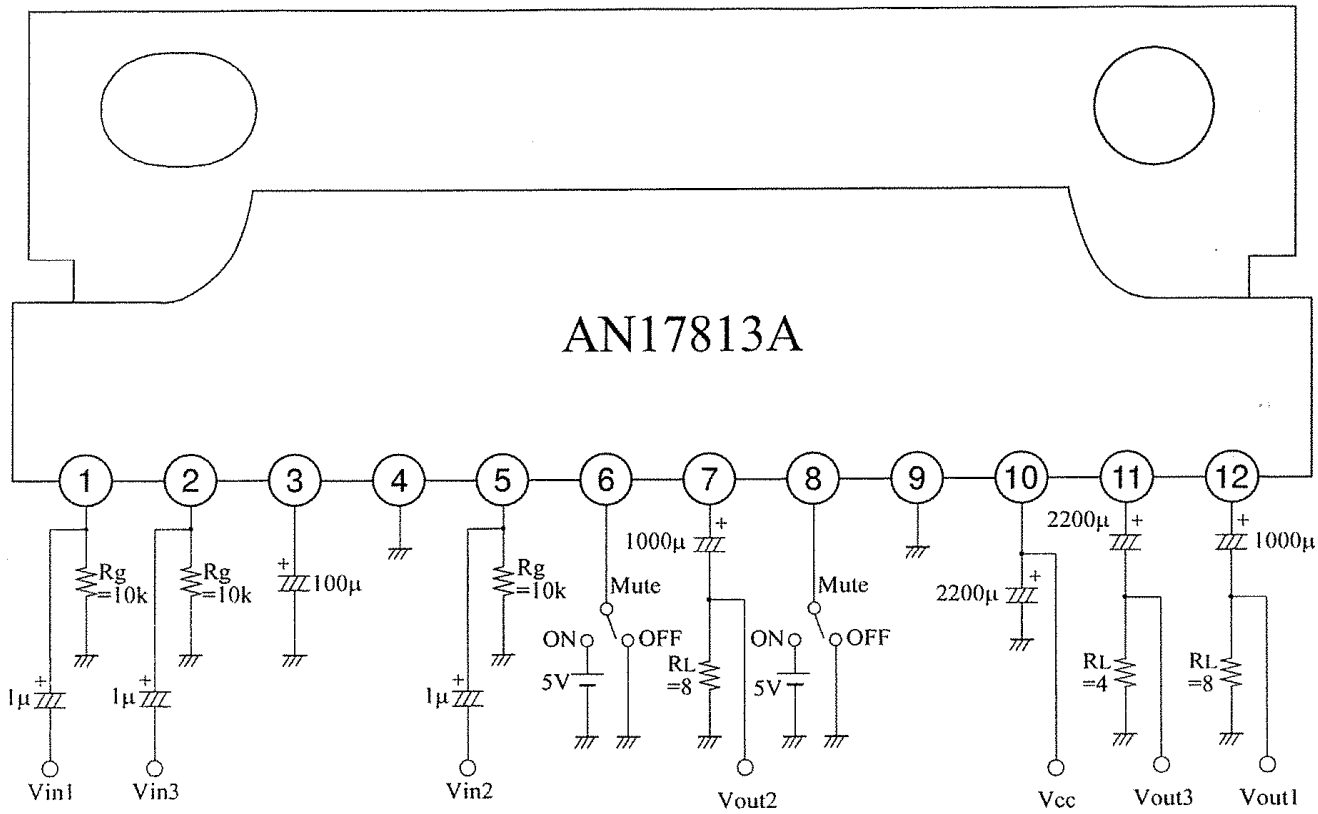
■ Application

- Low frequency amplifier

■ Package

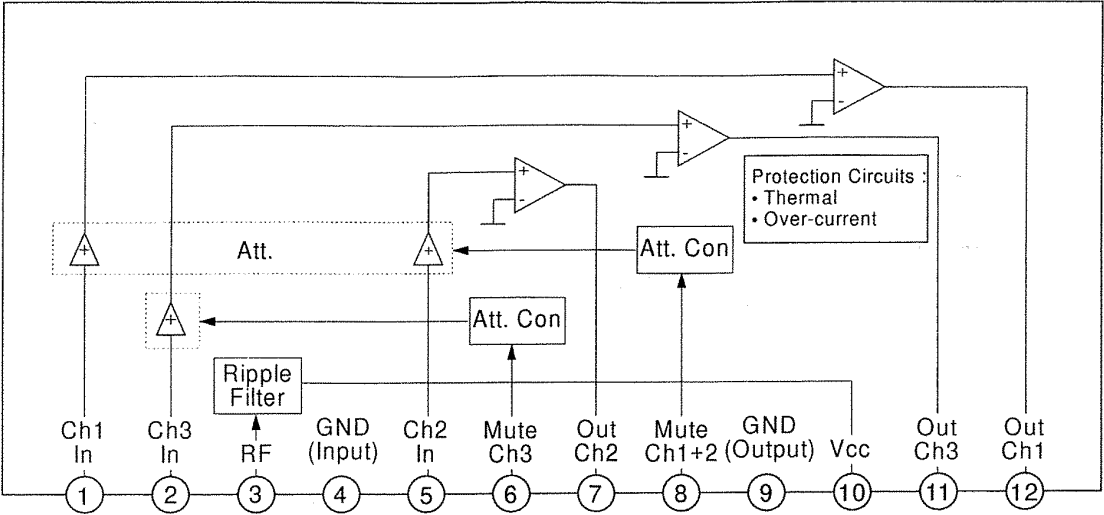
- SIL-12 pin plastic package (Power-type with fin)

■ Application Circuit Example



Note) Mute 'off', connect to 0 V

■ Block Diagram



■ Pin Descriptions

Pin No.	Description	Pin No.	Description
1	Channel 1 input	7	Channel 2 output
2	Channel 3 input	8	Channel 1 & 2 mute
3	Ripple filter	9	Output GND
4	Input GND	10	V _{CC}
5	Channel 2 input	11	Channel 3 output
6	Channel 3 mute	12	Channel 1 output

■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V_{CC}	30	V	—
2	Supply current	I_{CC}	8.0	A	—
3	Power dissipation	P_D	37.5	W	*1
4	Storage temperature	T_{stg}	−55 to +150	°C	*2
5	Operating ambient temperature	T_{opr}	−25 to +75	°C	*2
6	Operating ambient atmospheric pressure	P_{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	—
7	Operating constant gravity	G_{opr}	9 810	m/s ²	—
8	Operating shock	S_{opr}	4 900	m/s ²	—

Note) *1: $T_a = 75^\circ\text{C}$. For the independent IC without a heat sink.

*2: Except for the storage temperature and operating ambient temperature, all ratings are for $T_a = 25^\circ\text{C}$.

■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Operating Supply Voltage Range	V_{CC}	10.0 to 26.0	V	—

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