

# DATA SHEET

Part No.	<b>AN7582Z</b>
Package Code No.	HSIP012-P-0000E

SEMICONDUCTOR COMPANY  
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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# AN7582Z

## Audio power amplifier IC

### ■ Features

- Dual 10 W audio power amplifier
- Built-in muting circuit
- Incorporating protection circuit

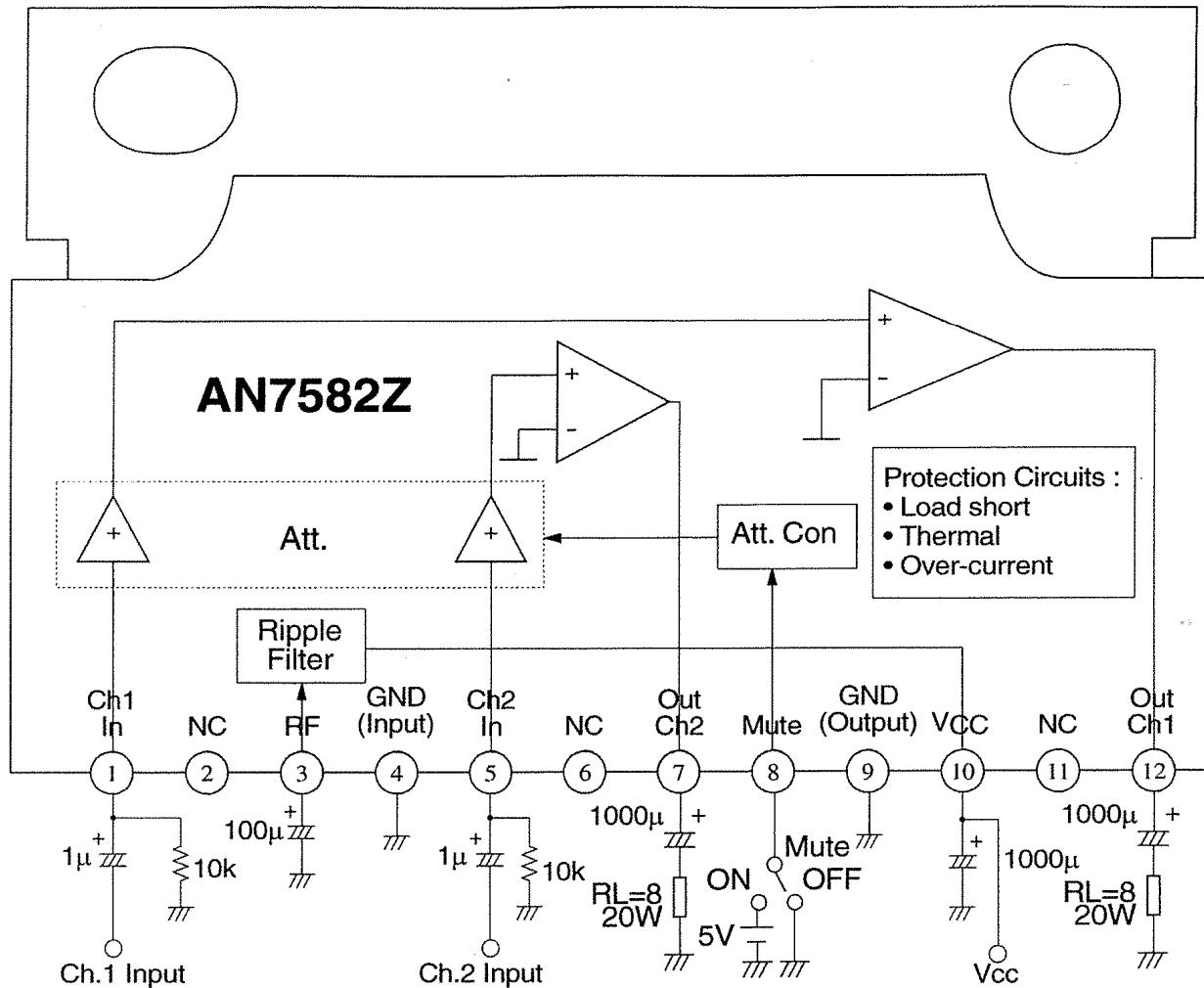
### ■ Application

- Low frequency amplifier

### ■ Package

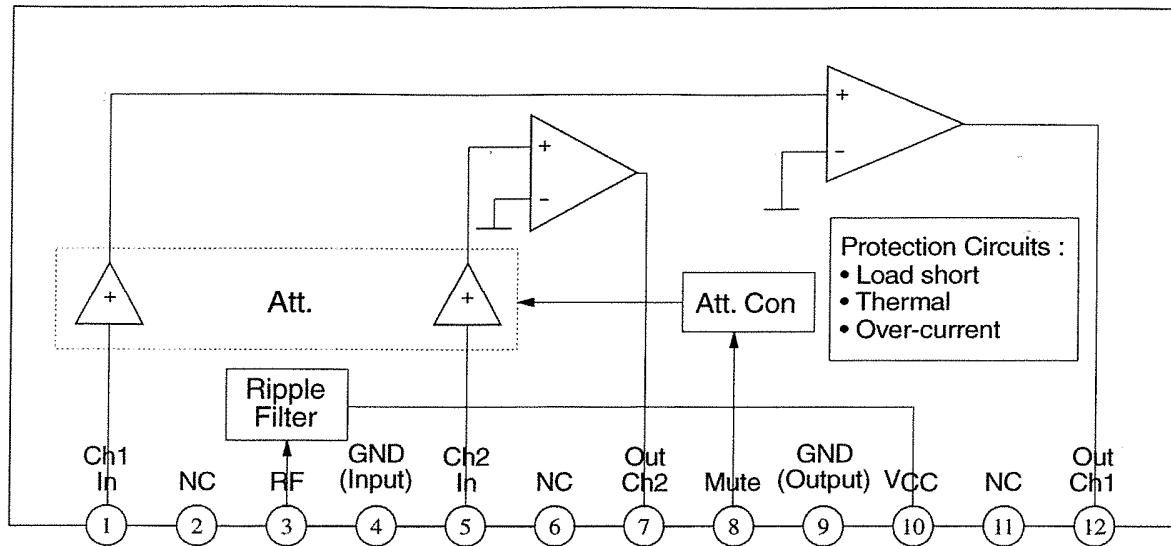
- SIL-12 pin plastic package (Power-type with fin)

## ■ 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	Not connected	8	Mute
3	Ripple filter	9	Output GND
4	Input GND	10	V <sub>CC</sub>
5	Channel 2 input	11	Not connected
6	Not connected	12	Channel 1 output

**■ Absolute Maximum Ratings**

No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V <sub>CC</sub>	35.0	V	—
2	Supply current	I <sub>CC</sub>	4.0	A	—
3	Power dissipation	P <sub>D</sub>	37.5	W	*1
4	Storage temperature	T <sub>stg</sub>	−55 to +150	°C	*2
5	Operating ambient temperature	T <sub>opr</sub>	−25 to +75	°C	*2
6	Operating ambient atmospheric pressure	P <sub>opr</sub>	$1.013 \times 10^5 \pm 0.61 \times 10^5$ (1.0 ± 0.6)	Pa (atm)	—
7	Operating constant gravity	G <sub>opr</sub>	9 810 (1 000)	m/s <sup>2</sup> (G)	—
8	Operating shock	S <sub>opr</sub>	4 900 (500)	m/s <sup>2</sup> (G)	—

Note) \*1: T<sub>a</sub> = 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<sub>a</sub> = 25°C.

**■ Operating Supply Voltage Range**

Parameter	Symbol	Range	Unit	Note
Operating Supply Voltage Range	V <sub>CC</sub>	10.0 to 32.0	V	—

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