# DATA SHEET

Part No.	AN7582Z	
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

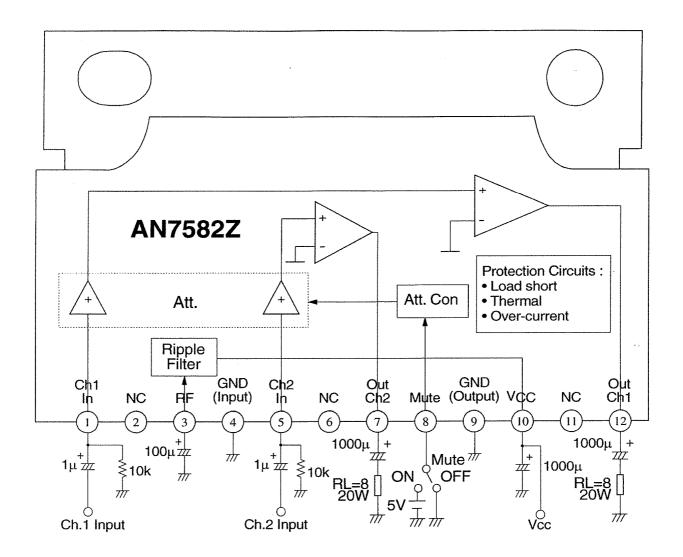
#### ■ Application

• Low frequency amplifier

#### ■ Package

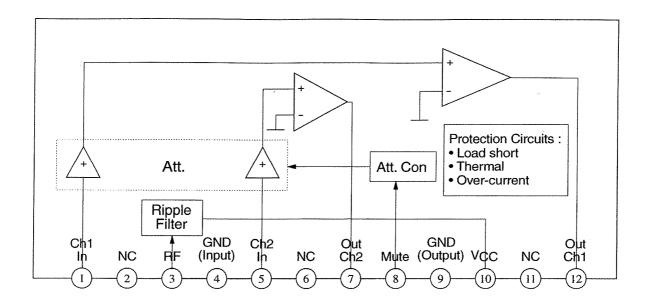
• SIL-12 pin plastic package (Power-type with fin)

#### ■ 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

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#### ■ Absolute Maximum Ratings

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

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

#### ■ Operating Supply Voltage Range

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

<sup>\*2:</sup> Except for the storage temperature and operating ambient temperature, all ratings are for  $T_a = 25$ °C.

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