### **Panasonic**

# DATA SHEET

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Package Code No.	HSIP012-P-0000E	

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# AN17810A

# Audio power amplifier IC

#### ■ Features

• Dual 6.5 W audio power amplifier, with muting circuit and standby circuit.

#### ■ Applications

• For low frequency amplifier

#### ■ Package

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

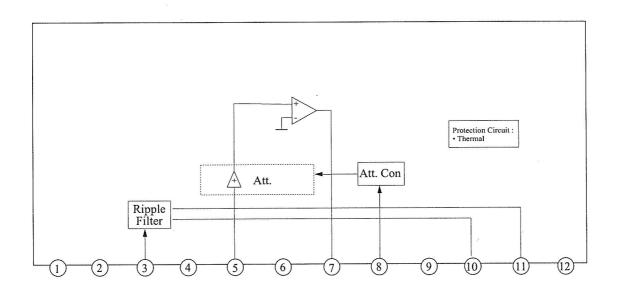
#### ■ Type

• Silicon monolithic bipolar IC

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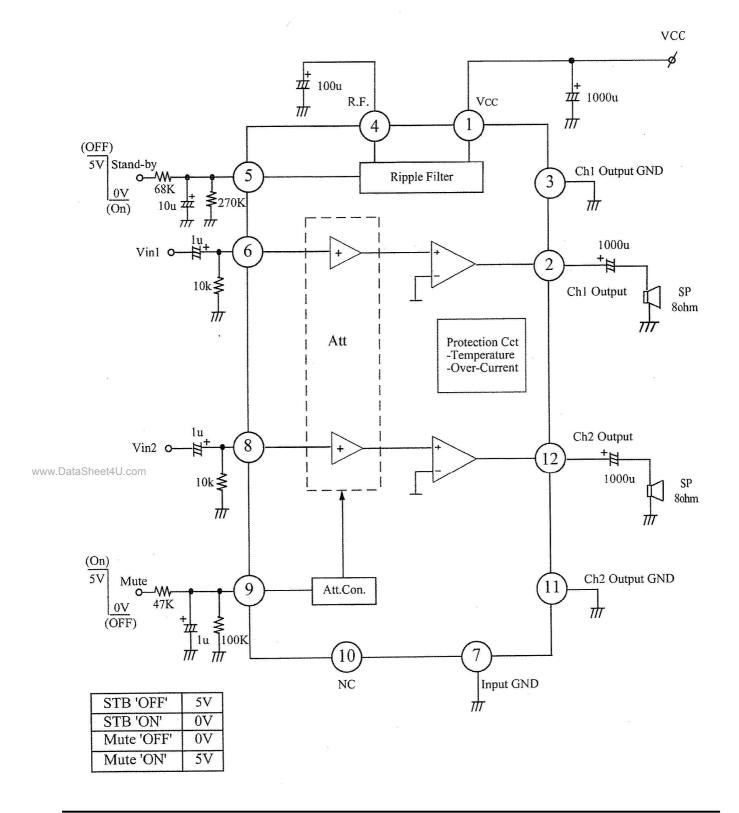
#### ■ Block Diagram



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#### ■ Application Circuit



#### ■ Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	$V_{CC}$	7	Input GND
2	Channel 1 output	8	Channel 2 input
3	Channel 1 output GND	9	Mute
4	Ripple filter	10	N.C.
5	Standby	11	Channel 2 output GND
6	Channel 1 input	12	Channel 2 output

#### ■ Absolute Maximum Ratings

A No.	Parameter	Symbol	Rating	Unit	Notes
1	Power supply voltage	V <sub>CC</sub>	27.0	V	
2	Power supply current	I <sub>CC</sub>	3.3	A	
3	Power dissipation	$P_{\mathrm{D}}$	37.5	W	*2
4	Operating ambient temperature	T <sub>opr</sub>	-25 to +75	°C	*1
5	Storage temperature	$T_{stg}$	-55 to +150	°C	*1
6	Operating ambient atmospheric pressure	P <sub>opr</sub>	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	
7	Operating constant gravity	G <sub>opr</sub>	9 810	m/s <sup>2</sup>	
8	Operating shock	Sopr	4 900	m/s <sup>2</sup>	

Notes) \*1:  $T_a = 25^{\circ}C$  except storage temperature and operating ambient temperature.

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#### ■ Operating Supply Voltage Range

Parameter	Symbol	Rating	Unit	Notes
Operating supply voltage range	V <sub>CC</sub>	9.0 to 25.0	V	

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<sup>\*2:</sup>  $T_a = 75^{\circ}C$  with infinite heatsink

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