# DATA SHEET

Part No.	AN7580
Package Code No.	HSIP012-P-0000E

### Contents

■ Applications	3
■ Package	. 3
■ Type	
■ Application Circuit Example	4
■ Block Diagram	5
Pin Descriptions	. 5
■ Absolute Maximum Ratings	6
Operating Supply Voltage Range	. 6

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## AN7580

25 W (6  $\Omega$ ) × 2-channel BTL power amplifier built-in standby and muting features incorporating various protection circuits

#### ■ Applications

• ICs for audio

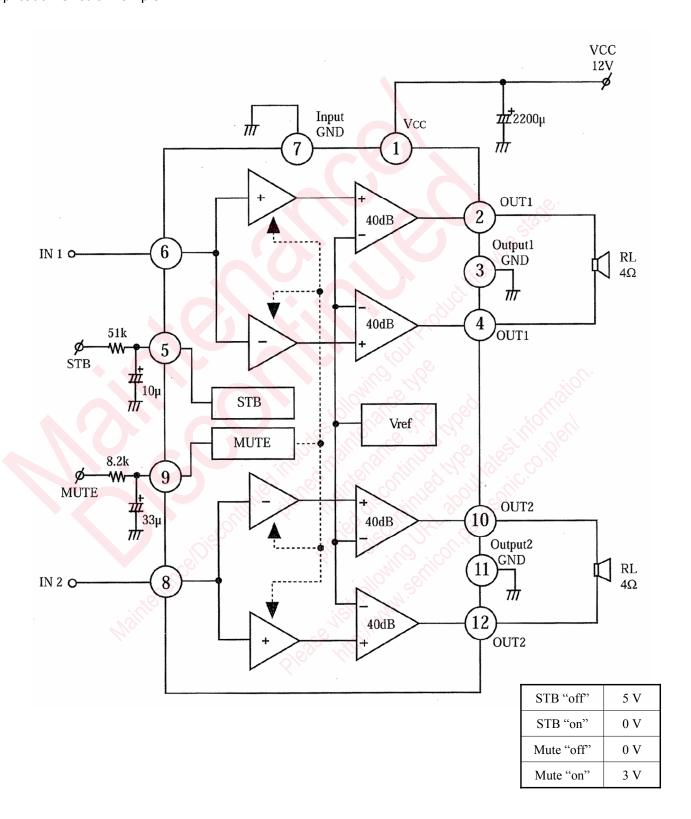
#### ■ Package

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

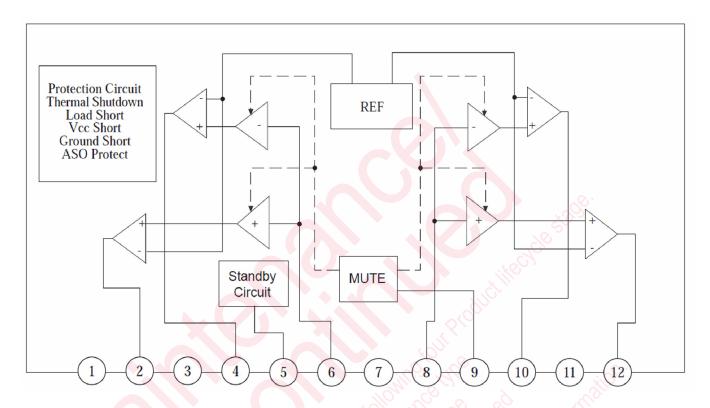
#### ■ Type

• Silicon monolithic bipolar IC

#### ■ Application Circuit Example



#### ■ Block Diagram



#### ■ Pin Descriptions

Pin No.	Description	Pin No.	Description
1	$V_{cc}$	7	Pre GND
2	Channel 1 +ve phase output	8	Channel 2 input
3	Channel 1 output GND	9	Mute
4	Channel 1 –ve phase output	10	Channel 2 –ve phase output
5	Standby	11	Channel 2 output GND
6	Channel 1 input	12	Channel 2 +ve phase output

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#### ■ Absolute Maximum Ratings

A No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V <sub>CC</sub>	24	V	*1
2	Supply current	$I_{CC}$	8.0	A	
3	Power dissipation	$P_{\mathrm{D}}$	37.5	W	*2
4	Storage temperature	T <sub>stg</sub>	-55 to +150	°C	
5	Operating ambient temperature	T <sub>opr</sub>	-25 to +75	°C	
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>	

Note ) \*1: Without input signal,  $V_{\text{CC}}$  is up to 27 V.

#### ■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Supply voltage range	V <sub>CC</sub>	8.0 to 20.0	V	

<sup>\*2:</sup> Ta = 75°C. For the independent IC without a heat sink.

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