

DATA SHEET

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

Maintenance/Discontinued includes following lifecycle stage.
planned maintenance type
maintenance type
planned discontinued type
discontinued type
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AN7580

25 W (6 Ω) \times 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)

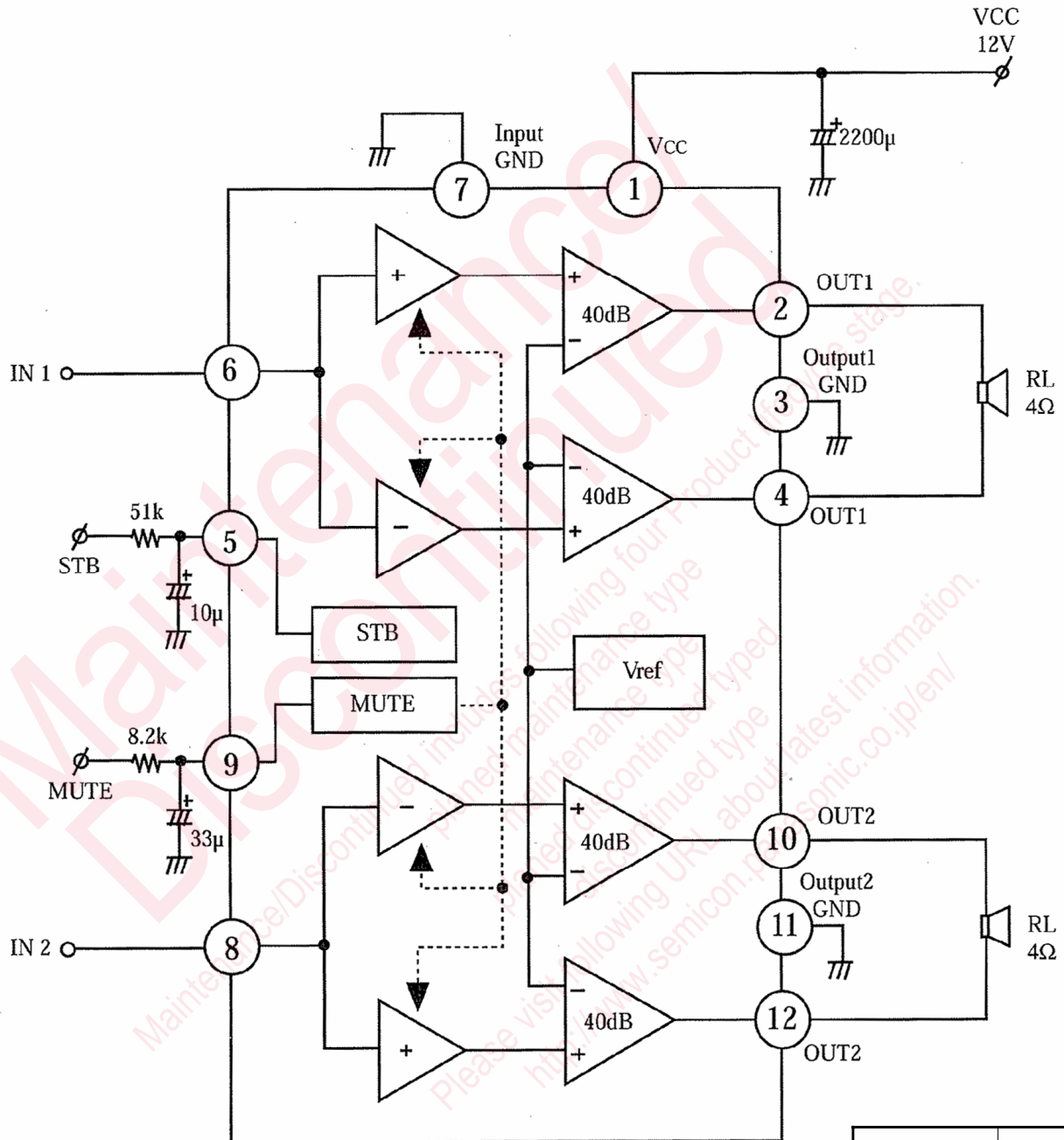
■ Type

- Silicon monolithic bipolar IC

Maintenance/Discontinued

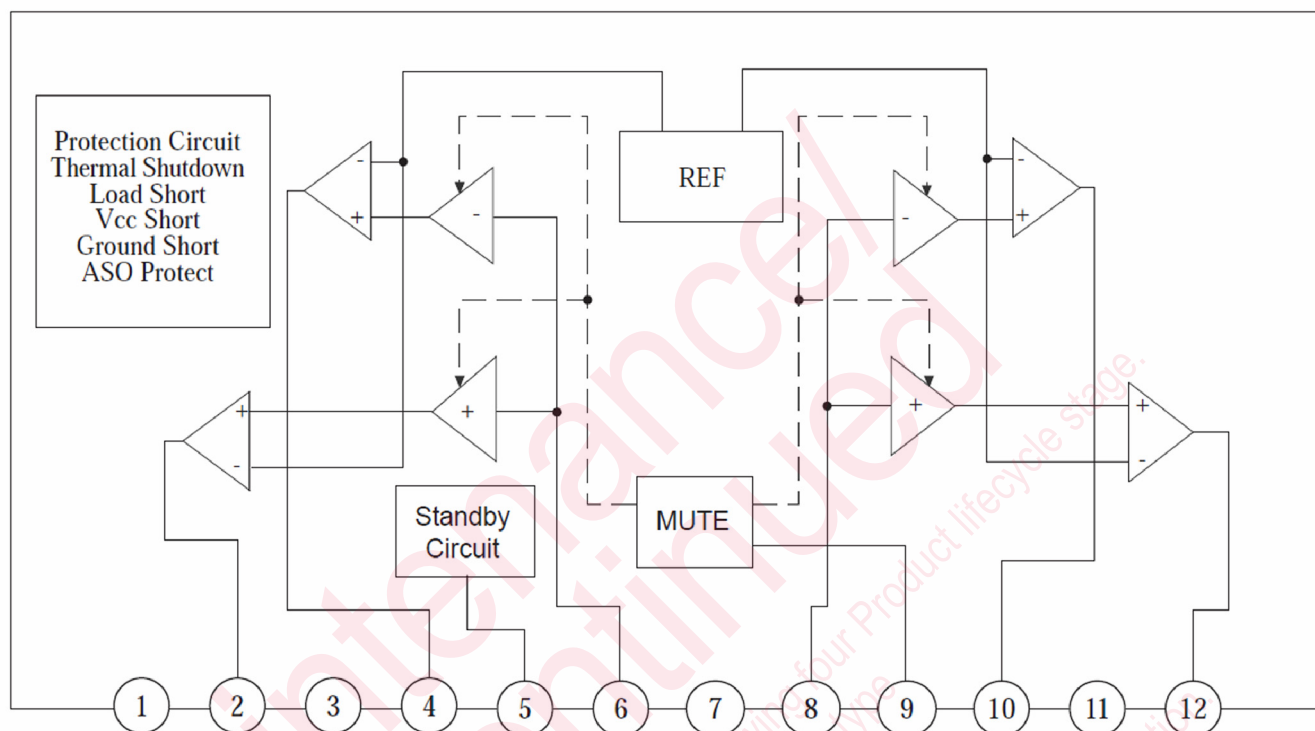
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■ Application Circuit Example



| | |
|------------|-----|
| STB "off" | 5 V |
| STB "on" | 0 V |
| Mute "off" | 0 V |
| Mute "on" | 3 V |

■ 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 |

■ Absolute Maximum Ratings

| A No. | Parameter | Symbol | Rating | Unit | Note |
|-------|--|-----------|--|------------------|------|
| 1 | Supply voltage | V_{CC} | 24 | V | *1 |
| 2 | Supply current | I_{CC} | 8.0 | A | |
| 3 | Power dissipation | P_D | 37.5 | W | *2 |
| 4 | Storage temperature | T_{stg} | -55 to +150 | °C | |
| 5 | Operating ambient temperature | T_{opr} | -25 to +75 | °C | |
| 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: Without input signal, V_{CC} is up to 27 V.

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

■ Operating Supply Voltage Range

| Parameter | Symbol | Range | Unit | Note |
|----------------------|----------|-------------|------|------|
| Supply voltage range | V_{CC} | 8.0 to 20.0 | V | |

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