

# DATA SHEET

|                  |                 |
|------------------|-----------------|
| Part No.         | AN17850A        |
| Package Code No. | HSIP012-P-0000E |

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Maintenance/Discontinued includes following four Product lifecycle stage.

planned maintenance type

planned maintenance type

planned discontinued type

discontinued type

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# AN17850A

70 W (6  $\Omega$ )  $\times$  1-channel BTL power amplifier built-in standby and muting features incorporating various protection circuits

■ Applications

- ICs for audio

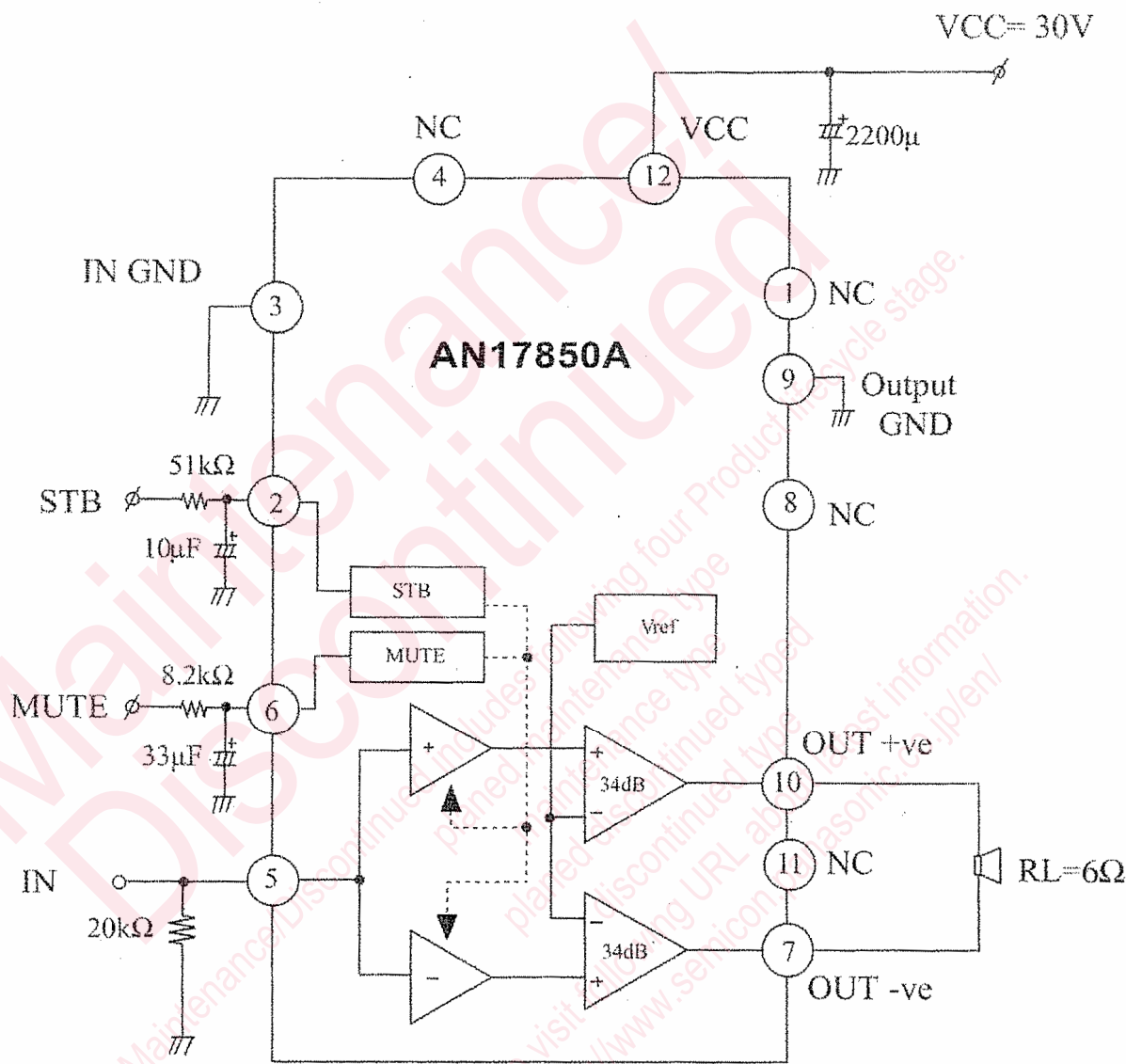
■ Package

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

■ Type

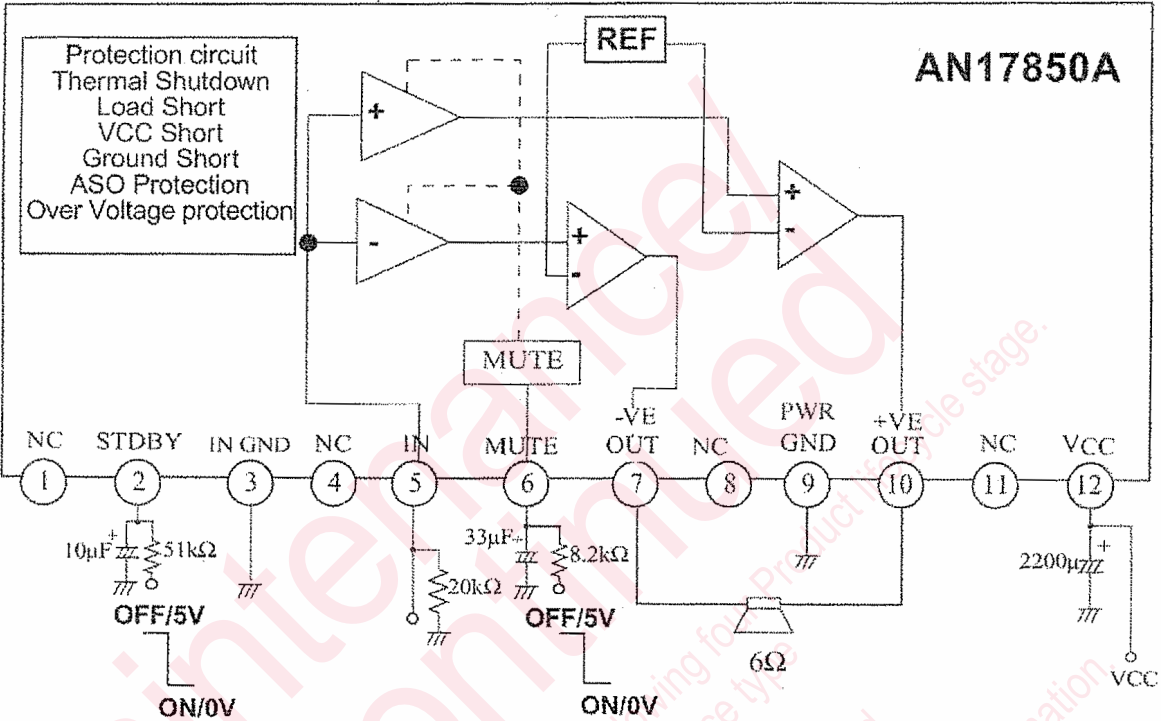
- Silicon monolithic bipolar IC

■ Application Circuit Example



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

■ Block Diagram



■ Pin Descriptions

| Pin No. | Description | Pin No. | Description      |
|---------|-------------|---------|------------------|
| 1       | N.C.        | 7       | -Ve phase output |
| 2       | Standby     | 8       | N.C.             |
| 3       | In GND      | 9       | Power GND        |
| 4       | N.C.        | 10      | +Ve phase output |
| 5       | In          | 11      | N.C.             |
| 6       | Mute        | 12      | V <sub>CC</sub>  |

### ■ Absolute Maximum Ratings

| A No. | Parameter                              | Symbol    | Rating                                   | Unit             | Note |
|-------|----------------------------------------|-----------|------------------------------------------|------------------|------|
| 1     | Supply voltage                         | $V_{CC}$  | 33                                       | 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 <sup>2</sup> |      |
| 8     | Operating shock                        | $S_{opr}$ | 4 900                                    | m/S <sup>2</sup> |      |

Note ) \*1: Without input signal,  $V_{CC}$  is up to 33 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 | $V_{CC}$ | 10 to 32 | V    |      |

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