

Silicon PNP Power Transistors

2SA1633

DESCRIPTION

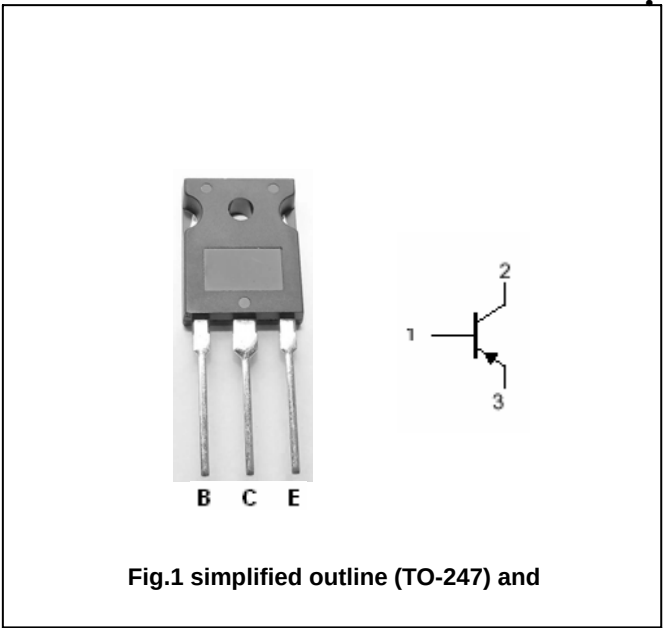
- With TO-247 package
- Complement to type 2SC4278
- High current and high power capability

APPLICATIONS

- For audio output applications

PINNING

| PIN | DESCRIPTION                          |
|-----|--------------------------------------|
| 1   | Base                                 |
| 2   | Collector;connected to mounting base |
| 3   | Emitter                              |



Absolute maximum ratings(Tc=25℃)

| SYMBOL           | PARAMETER                 | CONDITIONS          | VALUE   | UNIT |
|------------------|---------------------------|---------------------|---------|------|
| V <sub>CBO</sub> | Collector-base voltage    | Open emitter        | -150    | V    |
| V <sub>CEO</sub> | Collector-emitter voltage | Open base           | -150    | V    |
| V <sub>EBO</sub> | Emitter-base voltage      | Open collector      | -6      | V    |
| I <sub>C</sub>   | Collector current         |                     | -10     | A    |
| P <sub>D</sub>   | Total power dissipation   | T <sub>C</sub> =25℃ | 100     | W    |
| T <sub>j</sub>   | Junction temperature      |                     | 150     | ℃    |
| T <sub>stg</sub> | Storage temperature       |                     | -55~150 | ℃    |

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## CHARACTERISTICS

Tj=25°C unless otherwise specified

| SYMBOL        | PARAMETER                            | CONDITIONS                | MIN  | TYP. | MAX  | UNIT |
|---------------|--------------------------------------|---------------------------|------|------|------|------|
| $V_{(BR)CEO}$ | Collector-emitter breakdown voltage  | $I_C=-25mA$ ; $I_B=0$     | -150 |      |      | V    |
| $V_{CEsat}$   | Collector-emitter saturation voltage | $I_C=-5A$ ; $I_B=-0.5A$   |      |      | -1.5 | V    |
| $V_{BEsat}$   | Base-emitter saturation voltage      | $I_C=-5A$ ; $I_B=-0.5A$   |      |      | -2.0 | V    |
| $I_{CBO}$     | Collector cut-off current            | $V_{CB}=-150V$ ; $I_E=0$  |      |      | -0.1 | mA   |
| $I_{EBO}$     | Emitter cut-off current              | $V_{EB}=-6V$ ; $I_C=0$    |      |      | -0.1 | mA   |
| $h_{FE}$      | DC current gain                      | $I_C=-1A$ ; $V_{CE}=-5V$  | 60   |      | 320  |      |
| $f_T$         | Transition frequency                 | $I_C=-1A$ ; $V_{CE}=-10V$ |      | 20   |      | MHz  |

◆  $h_{FE}$  Classifications

| D      | E       | F       |
|--------|---------|---------|
| 60-120 | 100-200 | 160-320 |

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