

Silicon PNP Power Transistors

2SA1166

DESCRIPTION

- With MT-200 package
- High power dissipation

APPLICATIONS

- Audio and general purpose applications

PINNING (see Fig.2)

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

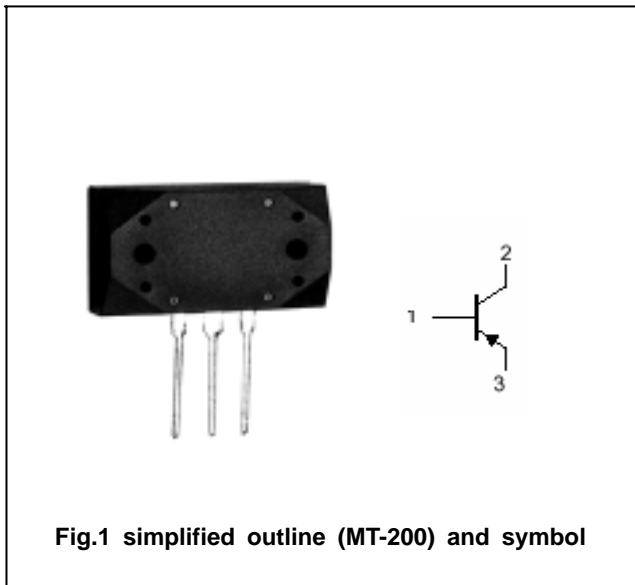


Fig.1 simplified outline (MT-200) and symbol

Absolute maximum ratings(Ta=25)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|--------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | -150 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -150 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -6 | V |
| I _C | Collector current | | -15 | A |
| I _B | Base current | | -5 | A |
| P _C | Collector power dissipation | T _C =25 | 150 | W |
| T _j | Junction temperature | | 150 | |
| T _{stg} | Storage temperature | | -55~150 | |

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CHARACTERISTICS

T_j=25 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 _{(BR)CBO} | Collector-base breakdown voltage | I _C =-1mA ; I _E =0 | -150 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-1mA ; I _C =0 | -6 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-5A ; I _B =-0.5A | | | -2.0 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-5A ; I _B =-0.5A | | | -2.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-150V ; I _E =0 | | | -10 | μ A |
| I _{EBO} | Emitter cut-off current | V _{EB} =-6V ; I _C =0 | | | -10 | μ A |
| h _{FE} | DC current gain | I _C =-5A ; V _{CE} =-4V | 50 | | | |
| f _T | Transition frequency | I _C =-1A ; V _{CE} =-10V | | 60 | | MHz |

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PACKAGE OUTLINE

