

Silicon NPN Power Transistors

2SC2774

DESCRIPTION

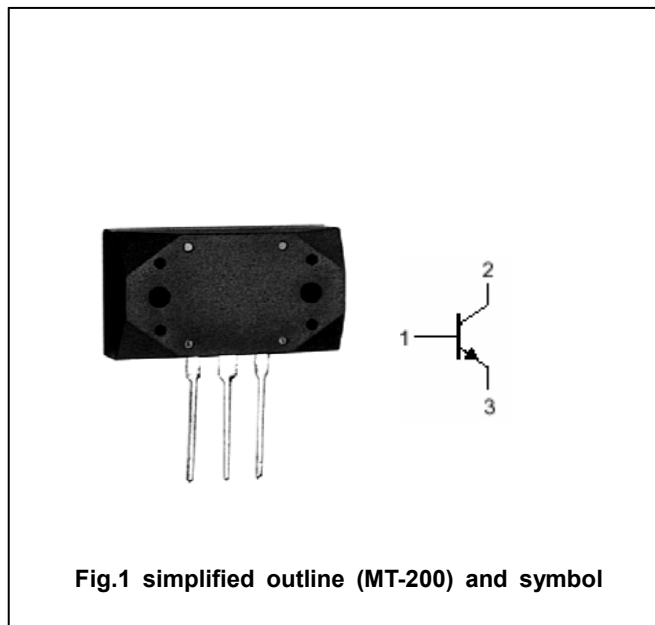
- With MT-200 package
- High power dissipation
- High current capability

APPLICATIONS

- For audio power amplifier and general purpose applications

PINNING(see Fig.2)

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

**Absolute maximum ratings(Ta=25□)**

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|---------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | 200 | V |
| V _{CEO} | Collector-emitter voltage | Open base | 200 | V |
| V _{EBO} | Emitter-base voltage | Open collector | 6 | V |
| I _C | Collector current | | 17 | A |
| I _B | Base current | | 5 | A |
| P _C | Collector power dissipation | T _C =25□ | 200 | W |
| T _j | Junction temperature | | 150 | □ |
| T _{stg} | Storage temperature | | -55~150 | □ |

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CHARACTERISTICS

T_j=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 | 200 | | | 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 |
| I _{CBO} | Collector cut-off current | V _{CB} =200V; I _E =0 | | | 100 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =5V; I _C =0 | | | 100 | μA |
| h _{FE} | DC current gain | I _C =5A ; V _{CE} =4V | 50 | | 140 | |
| C _{ob} | Output capacitance | I _E =0 ; V _{CB} =10V;f=1MHz | | 300 | | pF |
| f _T | Transition frequency | I _C =2A ; V _{CE} =12V | | 20 | | MHz |

◆ h_{FE} classifications

| O | Y |
|--------|--------|
| 50-100 | 70-140 |

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PACKAGE OUTLINE

