

Silicon NPN Power Transistors

2SC2773

DESCRIPTION

- With MT-200 package
- 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 |

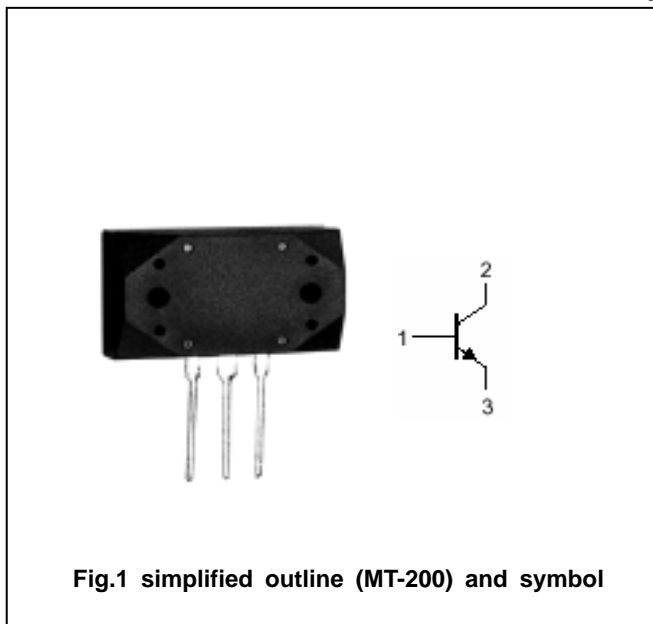


Fig.1 simplified outline (MT-200) and symbol

Absolute maximum ratings(Ta=25)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|-----------|-----------------------------|----------------|---------|------|
| V_{CBO} | Collector-base voltage | Open emitter | 200 | V |
| V_{CEO} | Collector-emitter voltage | Open base | 200 | 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 | |

Silicon NPN Power Transistors

2SC2773

CHARACTERISTICS

T_j=25 unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|---|-----|------|-----|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C =50mA; 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 =10 A; I _B =1 A | | | 3.0 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =200V; I _E =0 | | | 100 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =6V; I _C =0 | | | 100 | μA |
| h _{FE} | DC current gain | I _C =5A ; V _{CE} =4V | 50 | | 180 | |
| f _T | Transition frequency | I _C =0.5A ; V _{CE} =12V | | 20 | | MHz |
| C _{OB} | Output capacitance | I _E =0; V _{CB} =10V; f=1MHz | | 250 | | pF |

◆ h_{FE} classifications

| O | P | Y |
|--------|--------|--------|
| 50-100 | 70-140 | 90-180 |

PACKAGE OUTLINE

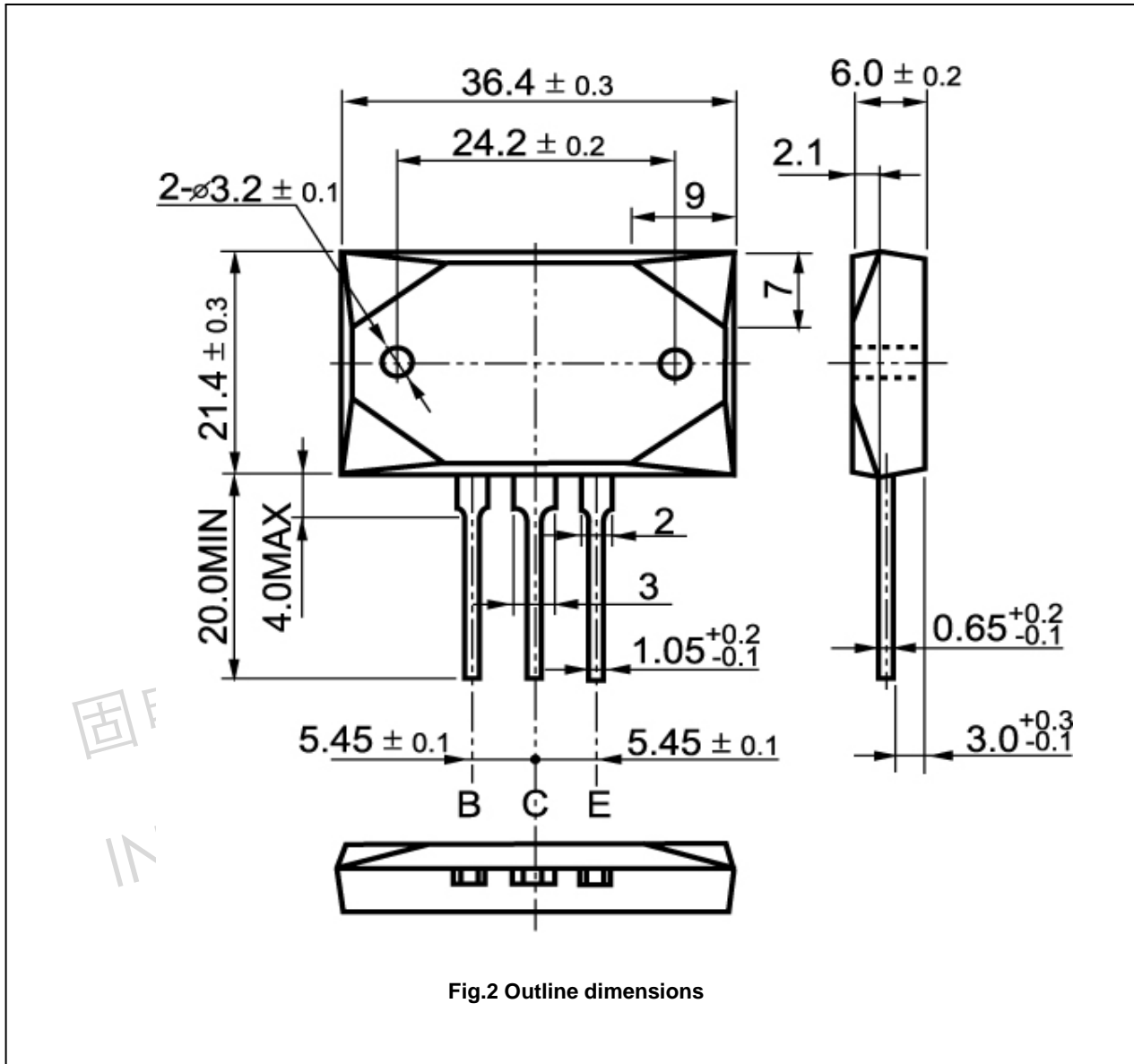


Fig.2 Outline dimensions