

isc Silicon NPN Power Transistor

2SC2774

DESCRIPTION

With MT-200 package

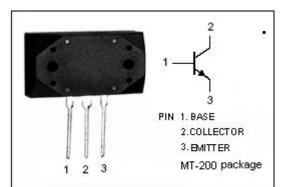
- High power dissipation
- High current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

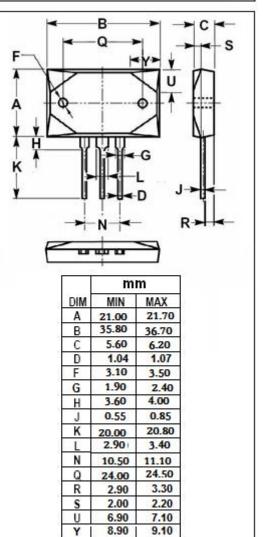
APPLICATIONS

 Design for audio power amplifier and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|---|-------|------|--|
| V _{CBO} | Collector-Base Voltage | 200 | v | |
| V _{CEO} | Collector-Emitter Voltage | 200 | V | |
| V _{EBO} | Emitter-Base Voltage 6 | | V | |
| Ι _C | Collector Current-Continuous 17 | | А | |
| IB | Base Current-Continuous | 5 | A | |
| Pc | Collector Power Dissipation @ T_c =25 $^{\circ}C$ | 200 | W | |
| TJ | Junction Temperature | 150 | °C | |
| T _{stg} | tg Storage Temperature Range -55~150 | | °C | |







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CHARACTERISTICS

Tj=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | МАХ | 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 | |
| Cob | Output capacitance | I _E =0 ; V _{CB} =10V;f=1MHz | | 300 | | pF |
| fT | Transition frequency | I _C =2A ; V _{CE} =12V | | 20 | | MHz |

h_{FE} classifications

| 0 | Y |
|--------|--------|
| 50-100 | 70-140 |

NOTICE:

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