

Silicon PNP Power Transistors

2SA658

DESCRIPTION

- With TO-3 package
- Wide area of safe operation
- Complement to type 2SC521

APPLICATIONS

- For audio frequency and power amplifier applications

PINNING(see Fig.2)

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Base |
| 2 | Emitter |
| 3 | Collector |

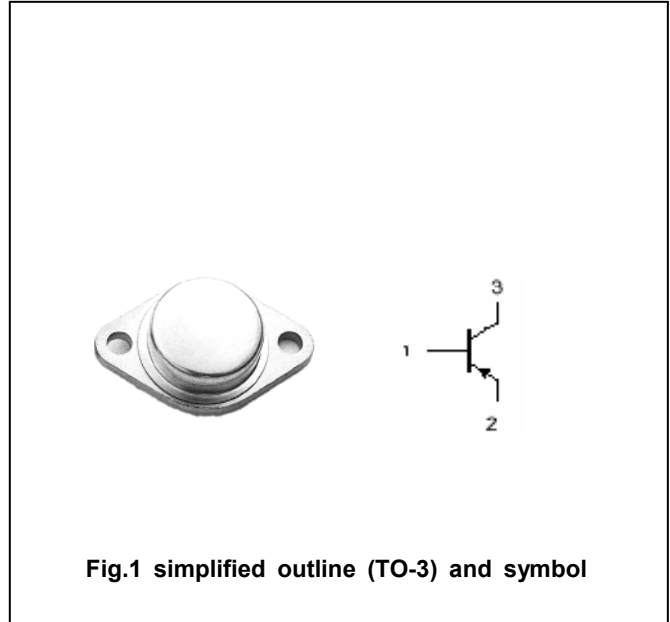


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|---------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | -70 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -70 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I _C | Collector current | | -7 | A |
| P _C | Collector power dissipation | T _C =25□ | 50 | 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 | -70 | | | V |
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C =-1mA ; I _E =0 | -70 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-1mA ; I _C =0 | -5 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-5A; I _B =-1A | | | -2.0 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-5A; I _B =-1A | | | -2.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-70V; I _E =0 | | | -0.1 | mA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-5V; I _C =0 | | | -0.1 | mA |
| h _{FE} | DC current gain | I _C =-1A ; V _{CE} =-5V | 30 | | 300 | |
| C _{OB} | Collector output capacitance | I _E =0; V _{CB} =-10V; f=1MHz | | 150 | | pF |
| f _T | Transition frequency | I _C =-1A ; V _{CE} =-10V | | 5 | | MHz |

PACKAGE OUTLINE



Fig.2 outline dimensions (unindicated tolerance:±0.1mm)