

Silicon PNP Power Transistors

2SA907/908/909

DESCRIPTION

- With TO-3 package
- Complement to type 2SC1584/1585/1586

APPLICATIONS

- For power switching and general purpose applications

PINNING(see Fig.2)

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

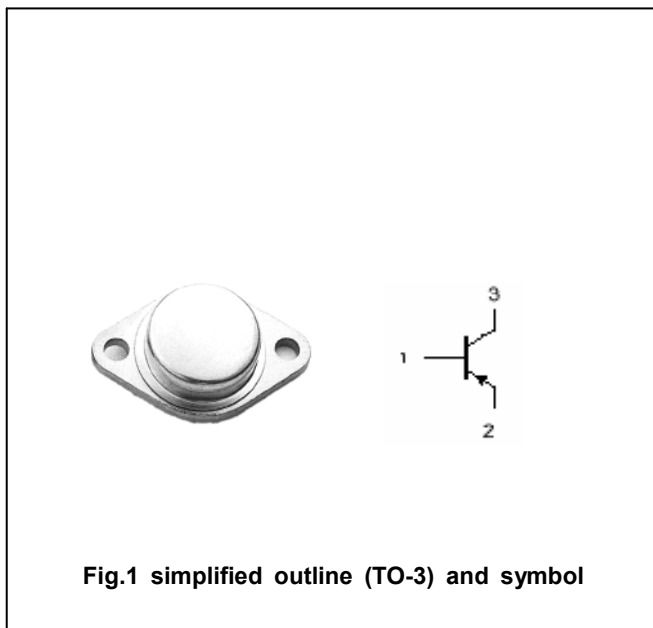


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|---------------------|---------|------|
| V _{CBO} | Collector-base voltage | 2SA907 | -100 | V |
| | | 2SA908 | -150 | |
| | | 2SA909 | -200 | |
| V _{CEO} | Collector-emitter voltage | 2SA907 | -100 | V |
| | | 2SA908 | -150 | |
| | | 2SA909 | -200 | |
| 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 | | -65~150 | □ |

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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 | 2SA907 | I _C =-50mA ; I _B =0 | -100 | | | V |
| | | 2SA908 | | -150 | | | |
| | | 2SA909 | | -200 | | | |
| V _{CEsat} | Collector-emitter saturation voltage | | I _C =-10A; I _B =-1A | | | -3.0 | V |
| I _{CBO} | Collector cut-off current | 2SA907 | V _{CB} =-100V; I _E =0 | | | -1.0 | mA |
| | | 2SA908 | V _{CB} =-150V; I _E =0 | | | | |
| | | 2SA909 | V _{CB} =-200V; I _E =0 | | | | |
| I _{EBO} | Emitter cut-off current | | V _{EB} =-6V; I _C =0 | | | -1.0 | mA |
| h _{FE} | DC current gain | | I _C =-5A ; V _{CE} =-4V | 30 | | | |
| f _T | Transition frequency | | I _C =-0.5A ; V _{CE} =-12V | | 10 | | MHz |

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PACKAGE OUTLINE

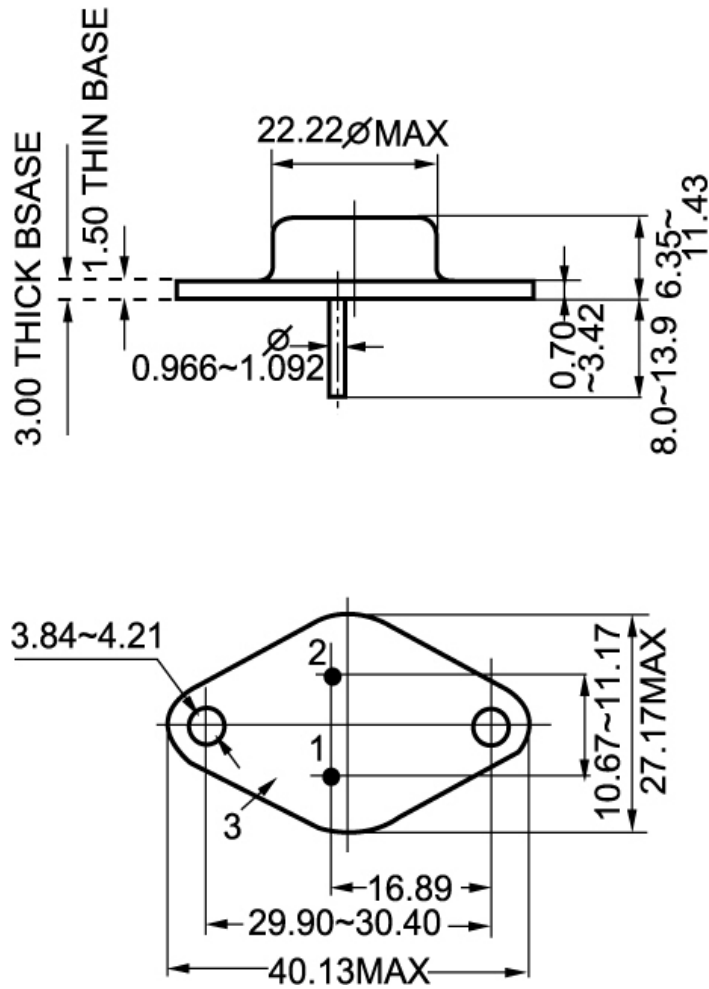


Fig.2 outline dimensions (unindicated tolerance:±0.1mm)