

Silicon PNP Power Transistors

2SB720

DESCRIPTION

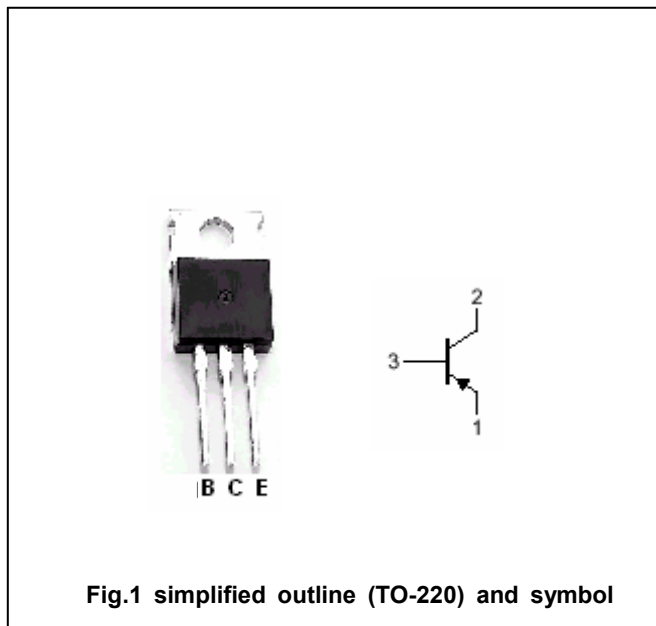
- With TO-220 package
- High V_{CEO}
- High power dissipation

APPLICATIONS

- Power amplifier
- TV vertical deflection output

PINNING

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



Absolute maximum ratings(Ta=25°C)

| 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 | -5 | V |
| I_C | Collector current | | -2.0 | A |
| I_{CM} | Collector current-peak | | -3.0 | A |
| P_T | Total power dissipation | $T_C=25^\circ C$ | 25 | W |
| T_j | Junction temperature | | 150 | °C |
| T_{stg} | Storage temperature | | -55~150 | °C |

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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 =-5mA, I _B =0 | -200 | | | V |
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C =-0.1mA, I _E =0 | -200 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-0.1mA, I _C =0 | -5 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-500mA; I _B =-50mA | | | -1.0 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-500mA; I _B =-50mA | | | -1.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-200V; I _E =0 | | | -10 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-5V; I _C =0 | | | -10 | μA |
| h _{FE} | DC current gain | I _C =-0.15A; V _{CE} =-5V | 35 | | 200 | |
| f _T | Transition frequency | I _C =-0.15A; V _{CE} =-5V | | 100 | | MHz |

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PACKAGE OUTLINE



Fig.2 Outline dimensions(unindicated tolerance:±0.10 mm)