

Silicon PNP Power Transistors

2SA1634

DESCRIPTION

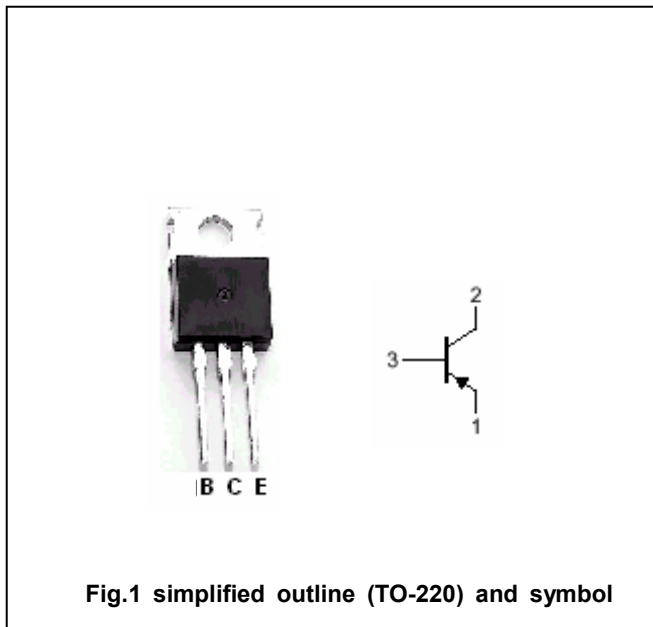
- With TO-220 package
- Complement to type 2SC4007
- Low collector saturation voltage

APPLICATIONS

- For medium speed,electrical supply and DC-DC converter applications

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 | -80 | V |
| V_{CEO} | Collector-emitter voltage | Open base | -80 | V |
| V_{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I_C | Collector current | | -4 | A |
| P_C | Collector power dissipation | $T_C=25^\circ C$ | 40 | 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 =-1mA, I _B =0 | -80 | | | 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 =-2A; I _B =-0.2A | | | -1.5 | V |
| V _{BE sat} | Base-emitter saturation voltage | I _C =-2A; I _B =-0.2A | | | -1.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-80V; 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 =-1A; V _{CE} =-4V | 60 | | 320 | |
| C _{OB} | Output capacitance | I _E =0; V _{CB} =-10V; f=1MHz | | 80 | | pF |
| f _T | Transition frequency | I _C =-0.5A; V _{CE} =-12V | | 12 | | MHz |

◆ h_{FE} Classifications

| D | E | F |
|--------|---------|---------|
| 60-120 | 100-200 | 160-320 |

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PACKAGE OUTLINE



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