

Silicon PNP Power Transistors

2SA1383

DESCRIPTION

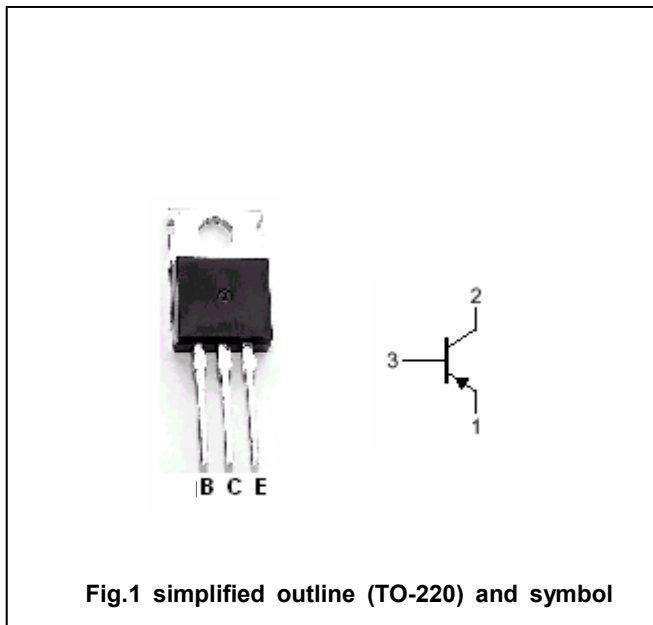
- With TO-220 package
- Complement to type 2SC3514
- High transition frequency

APPLICATIONS

- Designed for use in audio frequency power amplifier 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 | -180 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -180 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I _C | Collector current | | -0.1 | A |
| P _C | Collector power dissipation | T _a =25°C | 1.5 | W |
| | | T _C =25°C | 10 | |
| 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 =-10mA, I _B =0 | -180 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-50mA; I _B =-5mA | | | -0.5 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-50mA; I _B =-5mA | | | -1.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-180V; I _E =0 | | | -1.0 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-3V; I _C =0 | | | -1.0 | μA |
| h _{FE-1} | DC current gain | I _C =-1mA; V _{CE} =-5V | 90 | | | |
| h _{FE-2} | DC current gain | I _C =-10mA; V _{CE} =-5V | 100 | | 320 | |
| C _{OB} | Output capacitance | I _E =0; V _{CB} =-10V; f=1MHz | | 4.5 | | pF |
| f _T | Transition frequency | I _C =-20mA; V _{CE} =-10V | | 180 | | MHz |

◆ h_{FE-2} Classifications

| Q | P |
|---------|---------|
| 100-200 | 160-320 |

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PACKAGE OUTLINE



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