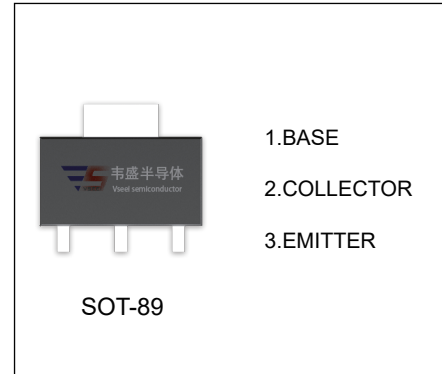


2SA1204 TRANSISTOR (PNP)

FEATURES

- Complementary to 2SC2884
- Small Flat Package
- Audio Frequency Amplifier Application
- High DC Current Gain



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------------------------|--|----------|------|
| V _{CB0} | Collector-Base Voltage | -35 | V |
| V _{CEO} | Collector-Emitter Voltage | -30 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current | -0.8 | A |
| P _C | Collector Power Dissipation | 500 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 250 | °C/W |
| T _J , T _{stg} | Operation Junction and Storage Temperature Range | -55~+150 | °C |

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|------|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C = -0.1mA, I _E =0 | -35 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-10mA, I _B =0 | -30 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-0.1mA, I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-35V, I _E =0 | | | -100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V, I _C =0 | | | -100 | nA |
| DC current gain | h _{FE(1)} | V _{CE} =-1V, I _C =-100mA | 100 | | 320 | |
| | h _{FE(2)} | V _{CE} =-1V, I _C =-700mA | 35 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-500mA, I _B =-20mA | | | -0.7 | V |
| Base-emitter voltage | V _{BE} | V _{CE} =-1V, I _C =-10mA | -0.5 | | -0.8 | V |
| Collector output capacitance | C _{ob} | V _{CB} =-10V, I _E =0, f=1MHz | | 19 | | pF |
| Transition frequency | f _T | V _{CE} =-5V, I _C = -10mA | | 120 | | MHz |

CLASSIFICATION OF h_{FE(1)}

| RANK | O | Y |
|---------|-----------|-----------|
| RANGE | 100 - 200 | 160 - 320 |
| MARKING | RO | RY |