

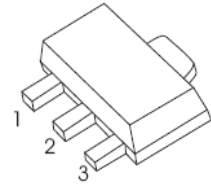
TRANSISTOR(PNP)

FEATURES

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

SOT-89-3L

1. BASE
2. COLLECTOR
3. EMITTER



MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------|---------------------------------------------|----------|-----------------------------|
| V_{CBO} | 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 |
| $R_{\theta JA}$ | Thermal Resistance From Junction To Ambient | 250 | $^{\circ}\text{C}/\text{W}$ |
| T_j | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -55~+150 | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--------------------------------------------------|------|-----|------|------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C = -0.1\text{mA}, I_E = 0$ | -35 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C = -10\text{mA}, I_B = 0$ | -30 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E = -0.1\text{mA}, I_C = 0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -35\text{V}, I_E = 0$ | | | -100 | nA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5\text{V}, I_C = 0$ | | | -100 | nA |
| DC current gain | $h_{FE(1)}$ | $V_{CE} = -1\text{V}, I_C = -100\text{mA}$ | 100 | | 320 | |
| | $h_{FE(2)}$ | $V_{CE} = -1\text{V}, I_C = -700\text{mA}$ | 35 | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -500\text{mA}, I_B = -20\text{mA}$ | | | -0.7 | V |
| Base-emitter voltage | V_{BE} | $V_{CE} = -1\text{V}, I_C = -10\text{mA}$ | -0.5 | | -0.8 | V |
| Collector output capacitance | C_{ob} | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | | 19 | | pF |
| Transition frequency | f_T | $V_{CE} = -5\text{V}, I_C = -10\text{mA}$ | | 120 | | MHz |

CLASSIFICATION OF $h_{FE(1)}$

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