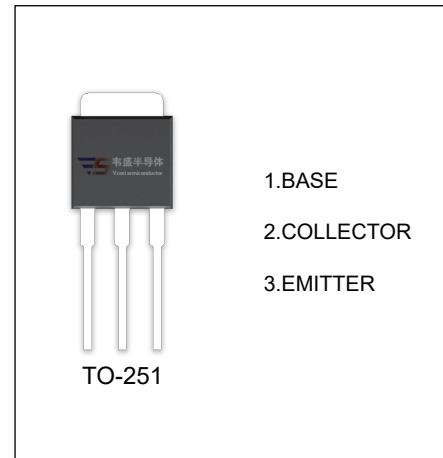


MJD2955 TRANSISTOR (PNP)

FEATURES

- for Applications General Amplifiers and Low Speed Switching Designed
- Electrically Similar to MJD3055
- DC Current Gain Specified to 10 Amperes



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

| Symbol | Parameter | Value | Unit |
|----------------|--|----------|--------------------|
| V_{CBO} | Collector-Base Voltage | -70 | V |
| V_{CEO} | Collector-Emitter Voltage | -60 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current -Continuous | -10 | A |
| P_C | Collector Power Dissipation | 1.25 | W |
| T_J, T_{stg} | Operation Junction and Storage Temperature Range | -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 | $V_{(BR)CBO}$ | $I_C=-1\text{mA}, I_E=0$ | -70 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-200\text{mA}, I_B=0$ | -60 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-1\text{mA}, I_C=0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-70\text{V}, I_E=0$ | | | -0.02 | mA |
| | I_{CEO} | $V_{CB}=-30\text{V}, I_B=0$ | | | -50 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-5\text{V}, I_C=0$ | | | -0.5 | mA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=-4\text{V}, I_C=-4\text{A}$ | 20 | | 100 | |
| | $h_{FE(2)}$ | $V_{CE}=-4\text{V}, I_C=-10\text{A}$ | 5 | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)(1)}$ | $I_C=-4\text{A}, I_B=-0.4\text{A}$ | | | -1.1 | V |
| | $V_{CE(sat)(2)}$ | $I_C=-10\text{A}, I_B=-3.3\text{A}$ | | | -8 | V |
| Base-emitter voltage | V_{BE} | $V_{CE}=-4\text{V}, I_C=-4\text{A}$ | | | -1.8 | V |
| Transition frequency | f_T | $V_{CE}=-10\text{V}, I_C=-0.5\text{A}, f=500\text{KHz}$ | 2 | | | MHz |