

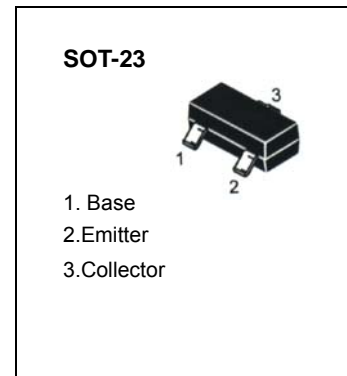
SS8550 TRANSISTOR (PNP)

FEATURES

Complimentary to SS8050

MARKING: Y2

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



| Symbol | Parameter | Value | Units |
|-----------|-------------------------------|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -40 | V |
| V_{CEO} | Collector-Emitter Voltage | -25 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current -Continuous | -1.5 | A |
| P_C | Collector Power Dissipation | 0.3 | W |
| T_j | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature | -55-150 | $^\circ\text{C}$ |

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

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|--------------------------------------|---------------|--|-----|-------|---------------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=-100\mu\text{A}, I_E=0$ | -40 | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-0.1\text{mA}, I_B=0$ | -25 | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-100\mu\text{A}, I_C=0$ | -5 | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-40\text{V}, I_E=0$ | | -0.1 | μA |
| Collector cut-off current | I_{CEO} | $V_{CE}=-20\text{V}, I_B=0$ | | -0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-5\text{V}, I_C=0$ | | -0.1 | μA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=-1\text{V}, I_C=-100\text{mA}$ | 120 | 400 | |
| | $h_{FE(2)}$ | $V_{CE}=-1\text{V}, I_C=-800\text{mA}$ | 40 | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-800\text{mA}, I_B=-80\text{mA}$ | | -0.5 | V |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | $I_C=-800\text{mA}, I_B=-80\text{mA}$ | | -1.2 | V |
| Base-emitter on voltage | $V_{BE(on)}$ | $I_C=-1\text{V}, V_{CE}=-10\text{mA}$ | | -1 | V |
| Base-emitter positive favor voltage | V_{BEF} | $I_B=-1\text{A}$ | | -1.55 | V |
| Transition frequency | f_T | $V_{CE}=-10\text{V}, I_C=-50\text{mA}$ $f=30\text{MHz}$ | 100 | | MHz |
| output capacitance | C_{ob} | $(V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz})$ | | 20 | pF |

CLASSIFICATION OF $h_{FE(1)}$

| Rank | L | H | J |
|-------|---------|---------|---------|
| Range | 120-200 | 200-350 | 300-400 |

Typical Characteristics

SS8550

