

FEATURES

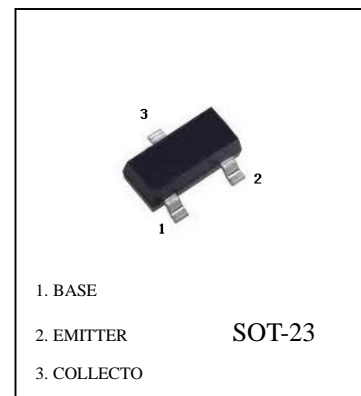
Complimentary to SS8050

Marking : Y2

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

| Parameter | Symbol | Value | Unit |
|-------------------------------|-----------|-------------|------|
| Collector-Base Voltage | V_{CBO} | -40 | V |
| Collector-Emitter Voltage | V_{CEO} | -25 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current -Continuous | I_C | -1500 | mA |
| Collector Power Dissipation | P_C | 300 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature | T_{stg} | -55 to +150 | °C |

SS8550 (PNP)



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

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

CLASSIFICATION OF h_{FE}

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

SS8550 Typical Characteristics

