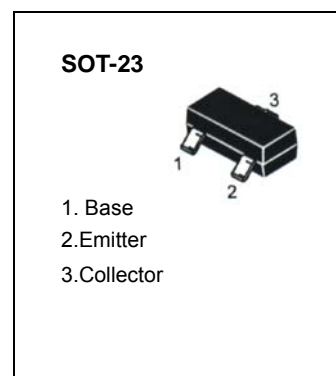


SOT-23 Plastic-Encapsulate Transistors**SS8550** TRANSISTOR (PNP)**FEATURES**

Complimentary to SS8050

MARKING: Y2**MAXIMUM RATINGS (T_A=25°C unless otherwise noted)**

| Symbol | Parameter | Value | Units |
|------------------|-------------------------------|---------|-------|
| V _{CB0} | Collector-Base Voltage | -40 | V |
| V _{CEO} | Collector-Emitter Voltage | -25 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current -Continuous | -1.2 | A |
| P _C | Collector Power Dissipation | 0.45 | W |
| T _j | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55-150 | °C |

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|--------------------------------------|----------------------|---|-----|-------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-100μA, I _E =0 | -40 | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-0.1mA, I _B =0 | -25 | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-100μA, 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(1)}

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