

SS8050

TRANSISTOR (NPN)

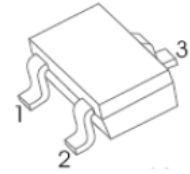
FEATURES

Complimentary to SS8550

MARKING: Y1

SOT-323

1. BASE
2. EMITTER
3. COLLECTOR



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

| Symbol | Parameter | Value | Unit |
|------------------|---|----------|------|
| 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 | 1.5 | A |
| P _C | Collector Power Dissipation | 250 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 500 | °C/W |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55~+150 | °C |

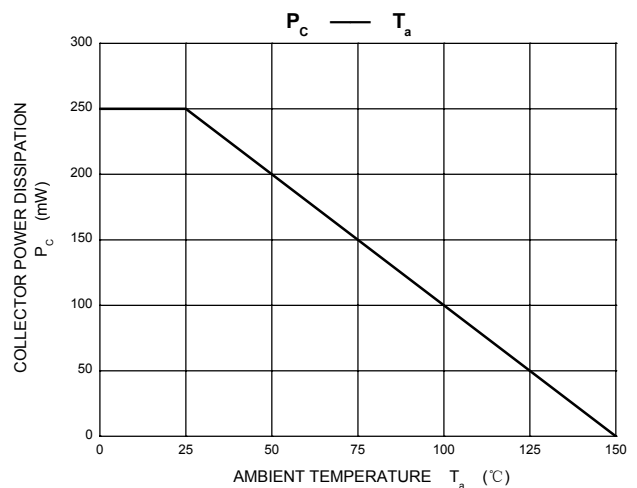
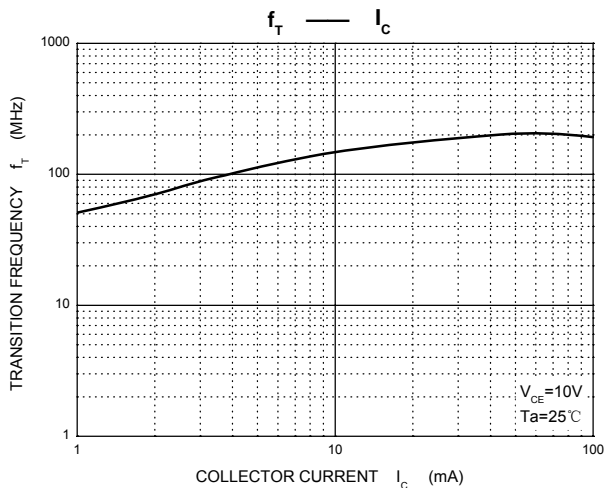
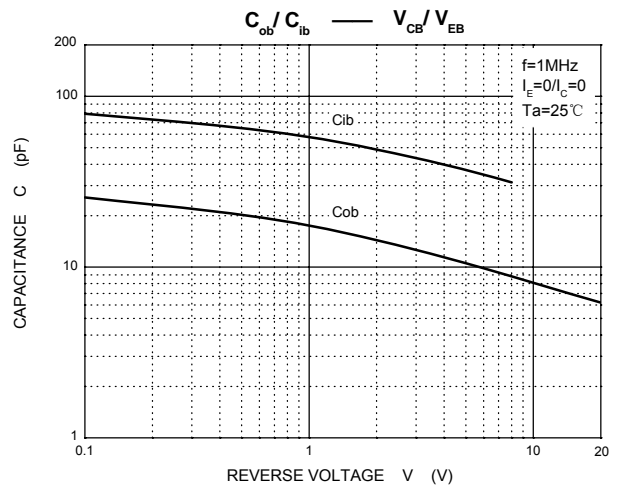
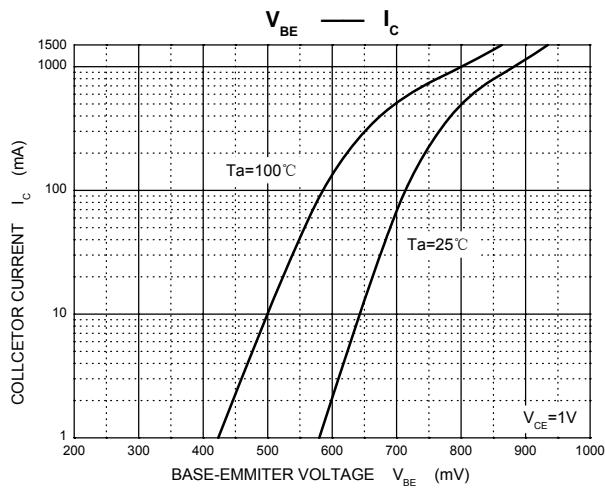
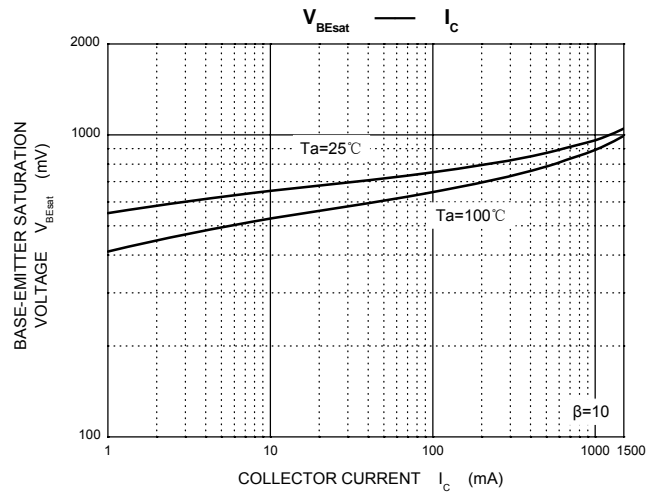
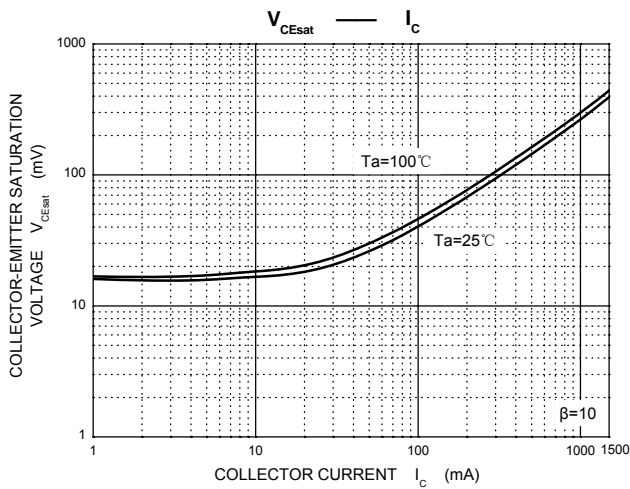
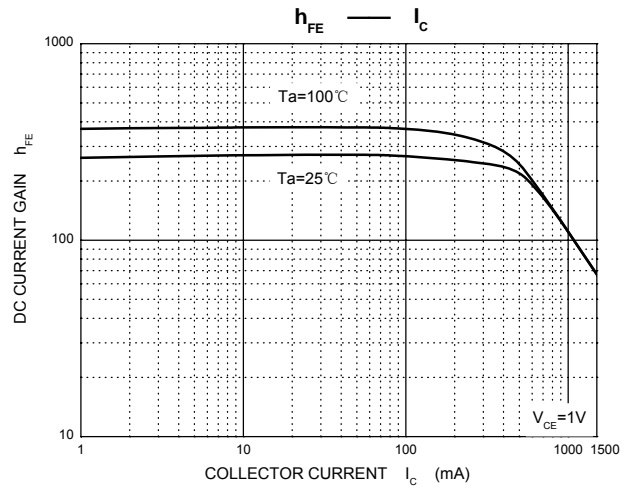
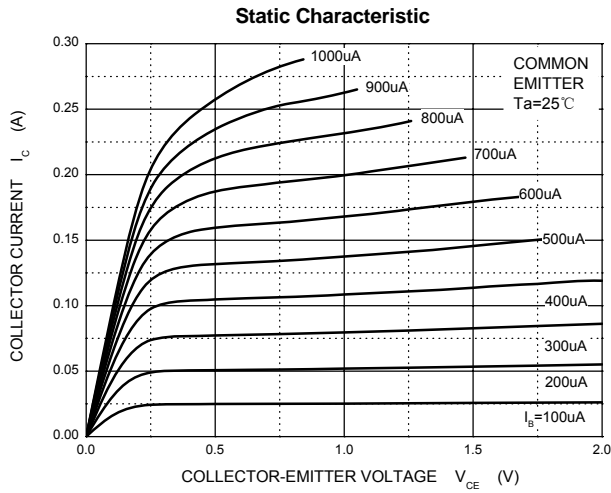
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | 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 _E =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 |
| Transition frequency | f _T | V _{CE} =10V, I _C = 50mA, f=30MHz | 100 | | | MHz |
| Collector output capacitance | C _{ob} | V _{CB} =10V, I _E =0, f=1MHz | | | 15 | pF |

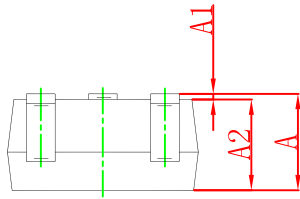
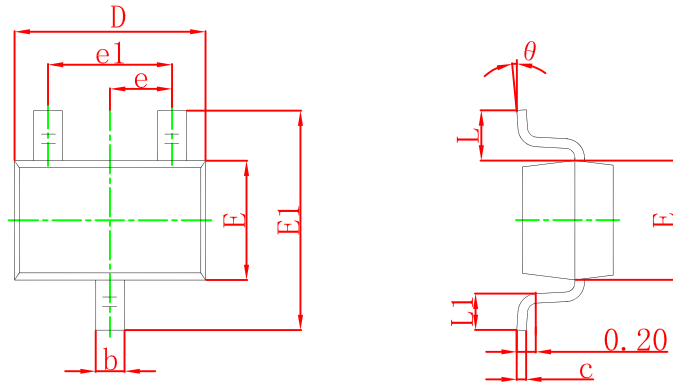
CLASSIFICATION OF h_{FE(1)}

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

Typical Characteristics

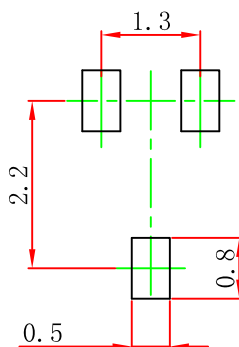


SOT-323 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.900 | 1.100 | 0.035 | 0.043 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.000 | 0.035 | 0.039 |
| b | 0.200 | 0.400 | 0.008 | 0.016 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.000 | 2.200 | 0.079 | 0.087 |
| E | 1.150 | 1.350 | 0.045 | 0.053 |
| E1 | 2.150 | 2.450 | 0.085 | 0.096 |
| e | 0.650 TYP | | 0.026 TYP | |
| e1 | 1.200 | 1.400 | 0.047 | 0.055 |
| L | 0.525 REF | | 0.021 REF | |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| theta | 0° | | 8° | |

SOT-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>YONGYUTAI\(永裕泰\)](#)