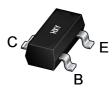


FEATURES

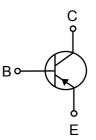
- Collector Current: I_C=1.5A
- Power Dissipation of 300mw





Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|--------|---------|----------|
| SS8550 | SOT-23 | Y2 | 3000 |



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

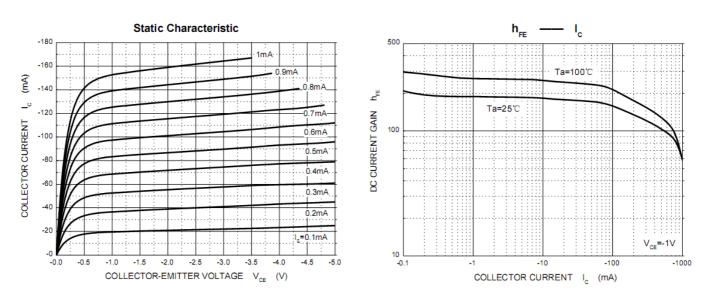
| Parameter | Symbol | Limit | Unit |
|---|------------------|----------|------|
| Collector-Base Voltage | V _{CBO} | -40 | V |
| Collector-Emitter Voltage | V _{CEO} | -25 | V |
| Emitter-Base Voltage | V _{EBO} | -5 | v |
| Collector Current | Ι _c | -1.5 | А |
| Collector Power Dissipation | Pc | 300 | mW |
| Thermal Resistance From Junction To Ambient | R _{OJA} | 417 | °C/W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature | T _{stg} | -55~+150 | °C |



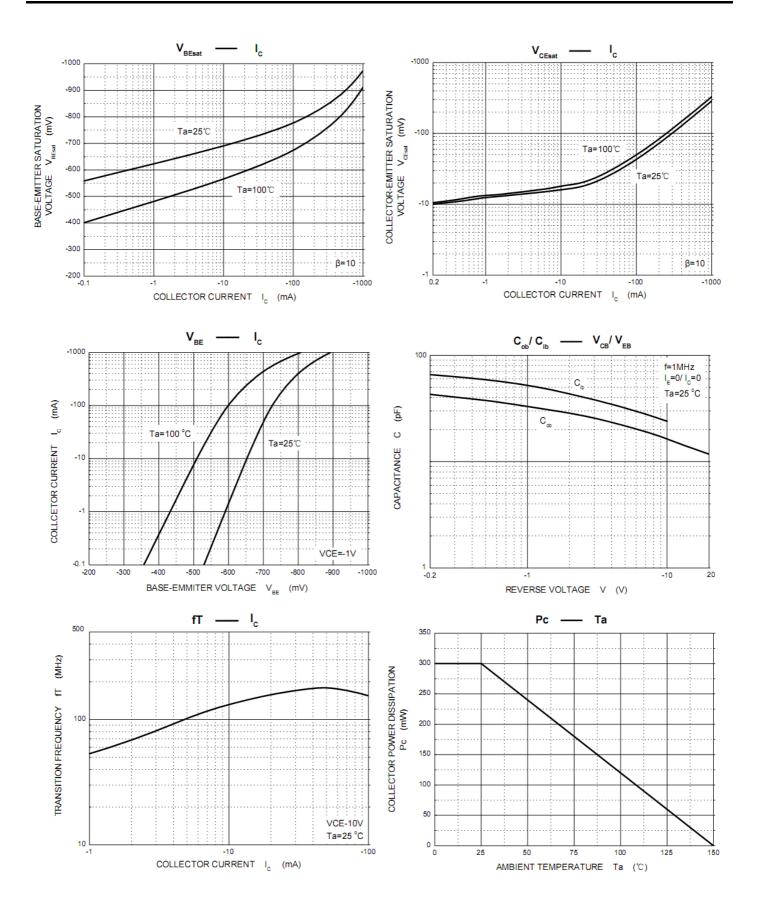
| Parameter | Symbol | Test conditions | Min | Тур | Max | Unit |
|--------------------------------------|----------------------|---|-----|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-100μΑ, I _E =0 | -40 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-0.1mA, I _B =0 | -25 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-100μΑ, I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-40V, I _E =0 | | | -100 | nA |
| Collector cut-off current | I _{CEO} | V _{CE} =-20V, I _B =0 | | | -100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V, I _C =0 | | | -100 | nA |
| D0 summer a sin | h _{FE(1)} | V _{CE} =-1V, I _C =-100mA | 120 | | 400 | |
| DC current gain | 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 voltage | V _{BE} | V _{CE} =-1V, I _C =-10mA | | | -1 | V |
| Transition frequency | f⊤ | V _{CE} =-10V,I _C =-50mA , f=30MHz | 100 | | | MHz |
| Collector output capacitance | Cob | V _{CB} =-10V, I _E =0, f=1MHz | | | 20 | pF |

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Typical Characteristics

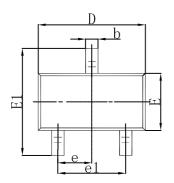


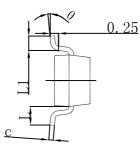


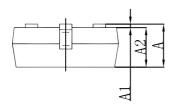




SOT-23 Package Outline Dimensions

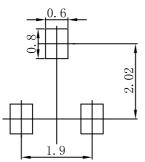






| Symbol | Dimensions In Millimeters | | Dimensions In Inches | | |
|--------|---------------------------|-------|----------------------|-------|--|
| | Min | Max | Min | Max | |
| Α | 0.900 | 1.150 | 0.035 | 0.045 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 | |
| b | 0.300 | 0.500 | 0.012 | 0.020 | |
| С | 0.080 | 0.150 | 0.003 | 0.006 | |
| D | 2.800 | 3.000 | 0.110 | 0.118 | |
| E | 1.200 | 1.400 | 0.047 | 0.055 | |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 | |
| е | 0.950 TYP | | 0.037 TYP | | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 | |
| L | 0.550 REF | | 0.022 REF | | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 | |
| θ | 0° | 8° | 0° | 8° | |

SOT-23 Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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