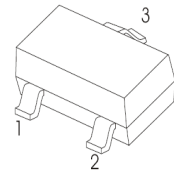


TRANSISTOR PNP

FEATURES

- Ideally suited for automatic insertion
- For Switching and AF Amplifier Applications

SOT-23



1. BASE
2. EMITTER
3. COLLECTOR

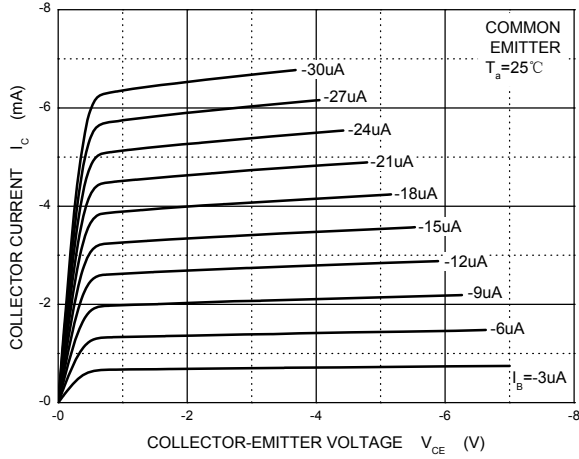
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------|---|----------|-----------------------------|
| V_{CBO} | Collector-Base Voltage | | |
| | BC856 | -80 | V |
| | BC857 | -50 | |
| | BC858 | -30 | |
| V_{CEO} | Collector-Emitter Voltage | | |
| | BC856 | -65 | V |
| | BC857 | -45 | |
| | BC858 | -30 | |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current –Continuous | -0.1 | A |
| P_C | Collector Power Dissipation | 200 | mW |
| $R_{\theta JA}$ | Thermal Resistance From Junction To Ambient | 625 | $^{\circ}\text{C}/\text{W}$ |
| T_J | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -65~+150 | $^{\circ}\text{C}$ |

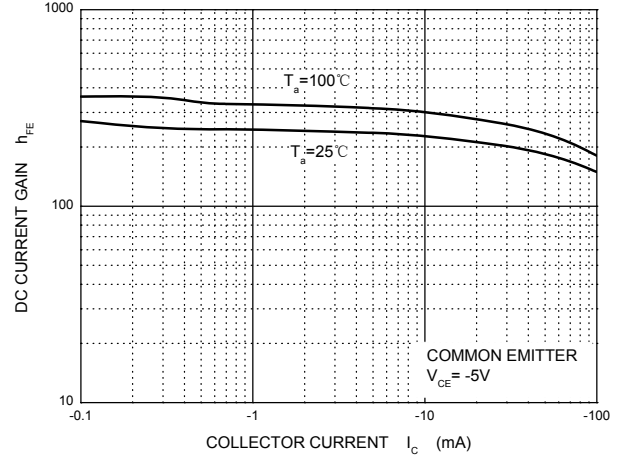
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Max | Unit | |
|--------------------------------------|----------------------|--|--|------|------|--|
| Collector-base breakdown voltage | BC856 | I _C = -10μA, I _E =0 | -80 | | V | |
| | BC857 | | -50 | | | |
| | BC858 | | -30 | | | |
| Collector-emitter breakdown voltage | BC856 | I _C = -10mA, I _B =0 | -65 | | V | |
| | BC857 | | -45 | | | |
| | BC858 | | -30 | | | |
| Emitter-base breakdown voltage | V _{EBO} | I _E = -1μA, I _C =0 | -5 | | V | |
| Collector cut-off current | BC856 | I _{CBO} | V _{CB} = -70 V, I _E =0 | | μA | |
| | BC857 | | V _{CB} = -45 V, I _E =0 | -0.1 | | |
| | BC858 | | V _{CB} = -25 V, I _E =0 | | | |
| Emitter cut-off current | I _{EBO} | V _{EB} = -5 V, I _C =0 | | -0.1 | μA | |
| DC current gain | BC856A, 857A,858A | h _{FE} | V _{CE} = -5V, I _C = -2mA | 125 | 250 | |
| | BC856B, 857B,858B | | | 220 | 475 | |
| | BC857C,BC858C | | | 420 | 800 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-100mA, I _B = -5 mA | | -0.5 | V | |
| Base-emitter saturation voltage | V _{BE(sat)} | I _C = -100mA, I _B = -5mA | | -1.1 | V | |
| Transition frequency | f _T | V _{CE} = -5 V, I _C = -10mA f=100MHz | 100 | | MHz | |
| Collector capacitance | C _{ob} | V _{CB} =-10V, f=1MHz | | 4.5 | pF | |

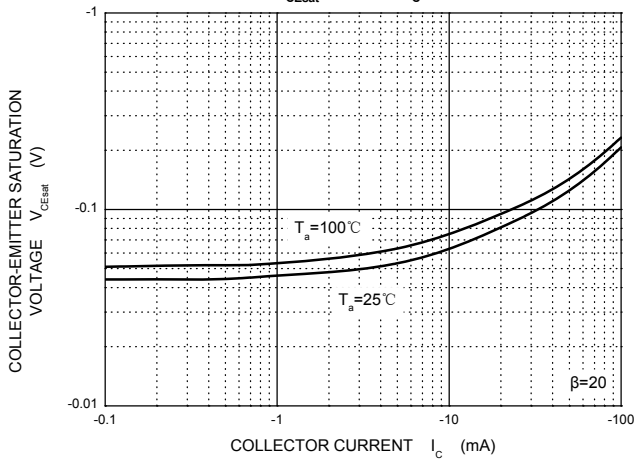
Static Characteristic



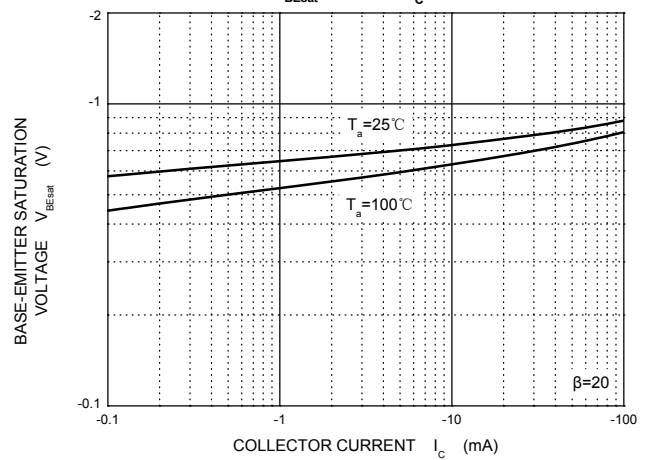
h_{FE} — I_c



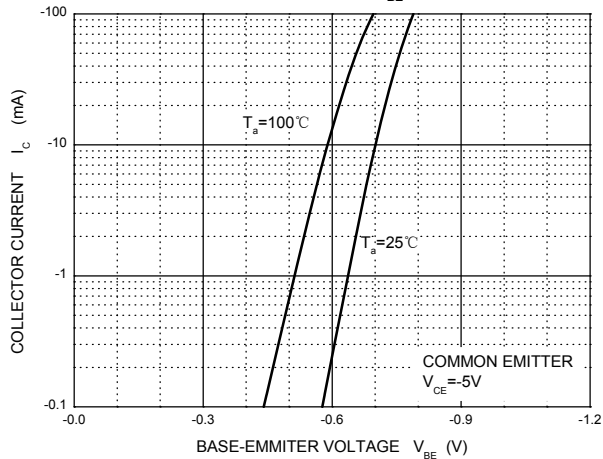
V_{CEsat} — I_c



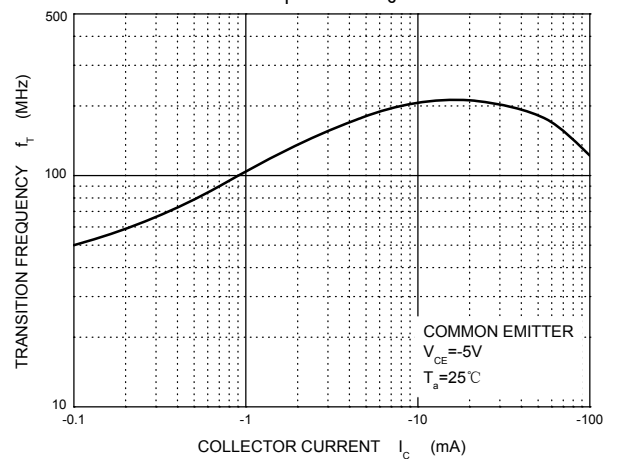
V_{BEsat} — I_c



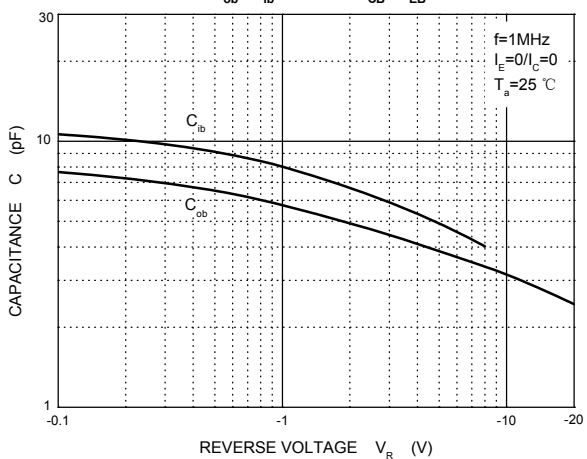
I_c — V_{BE}



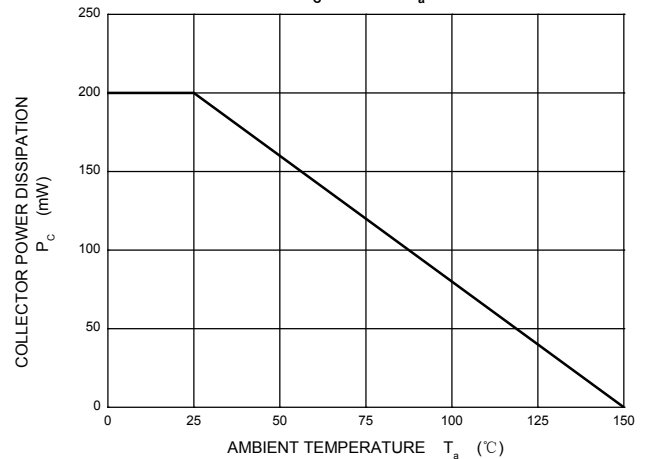
f_T — I_c

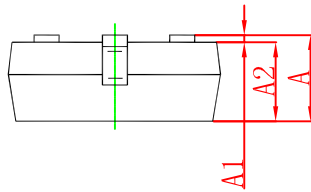
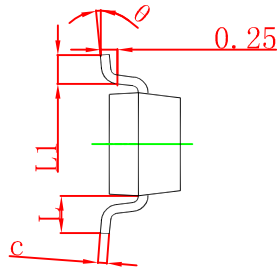
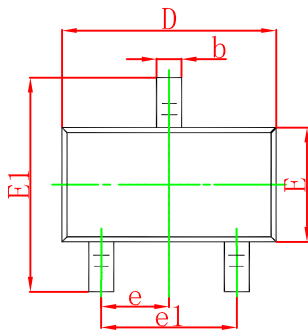


C_{ob}/C_{ib} — V_{CB}/V_{EB}



P_c — T_a





| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 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 |
| c | 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 |
| e | 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° |

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