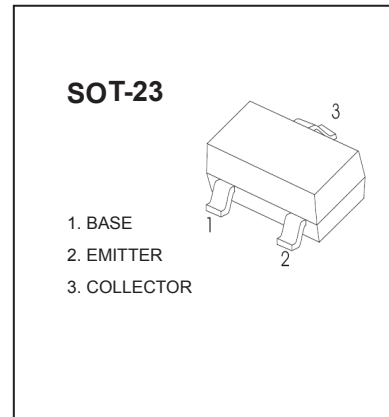


FEATURES

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC807 (PNP)



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

| Symbol | Parameter | Value | Unit |
|------------------|-------------------------------|---------|------|
| V _{CB0} | Collector-Base Voltage | 50 | V |
| V _{CEO} | Collector-Emitter Voltage | 45 | V |
| V _{EBO} | Emitter-Base Voltage | 5 | V |
| I _C | Collector Current -Continuous | 0.5 | A |
| P _C | Collector Power Dissipation | 0.3 | W |
| T _j | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55-150 | °C |

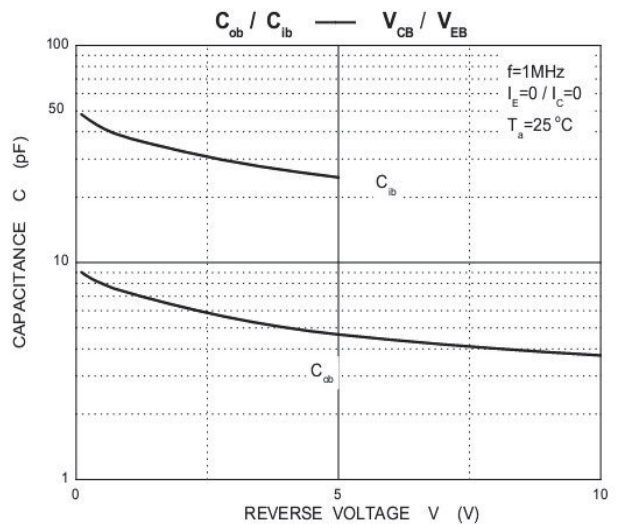
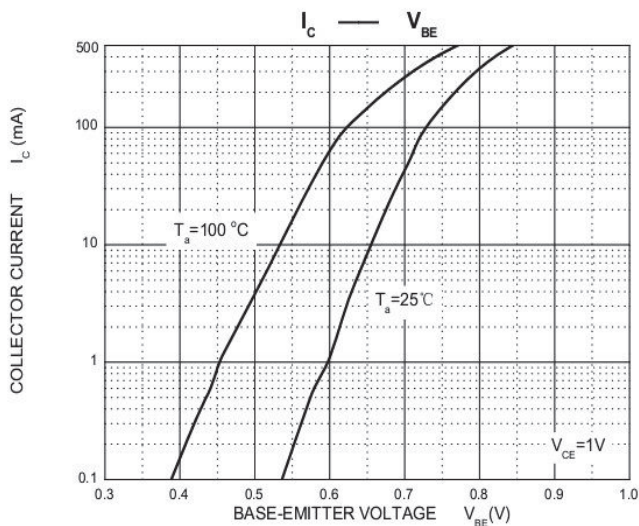
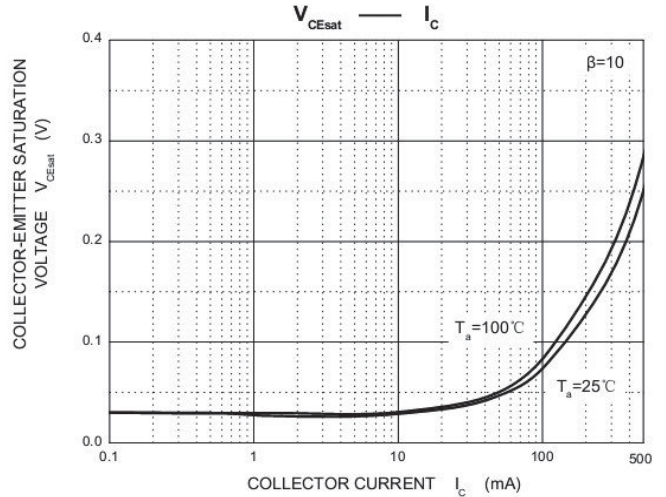
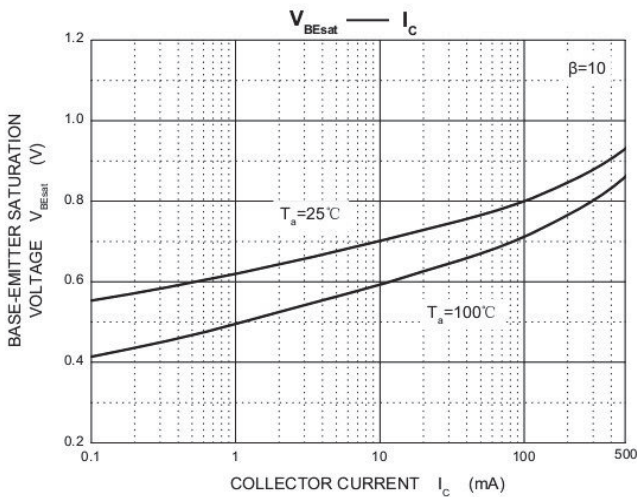
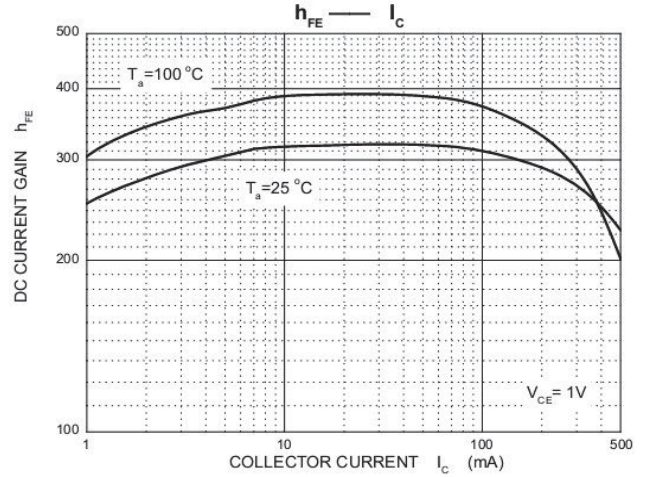
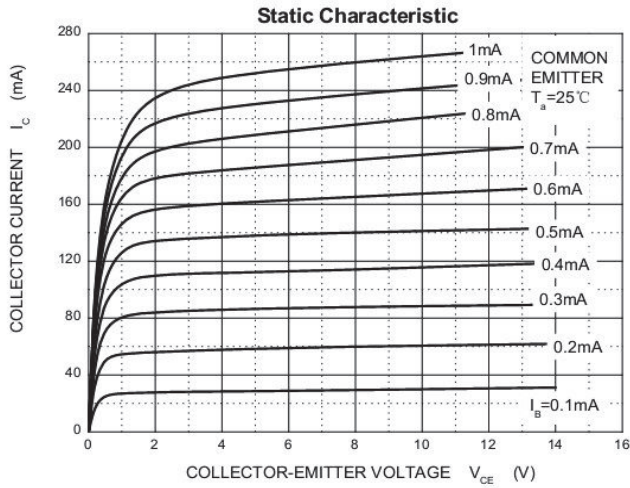
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|-----|------|
| Collector-base breakdown voltage | V _{CB0} | I _C = 10μA, I _E =0 | 50 | | | V |
| Collector-emitter breakdown voltage | V _{CEO} | I _C = 10mA, I _B =0 | 45 | | | V |
| Emitter-base breakdown voltage | V _{EBO} | I _E = 1μA, I _C =0 | 5 | | | V |
| Collector cut-off current | I _{CB0} | V _{CB} = 45 V, I _E =0 | | | 0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 4V, I _C =0 | | | 0.1 | μA |
| DC current gain | h _{FE(1)} | V _{CE} = 1V, I _C = 100mA | 100 | | 600 | |
| | h _{FE(2)} | V _{CE} = 1V, I _C = 500mA | 40 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C = 500mA, I _B = 50mA | | | 0.7 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | I _C = 500mA, I _B = 50mA | | | 1.2 | V |
| Base-emitter voltage | V _{BE} | V _{CE} = 1 V, I _C = 500mA | | | 1.2 | V |
| Collector capacitance | C _{ob} | V _{CB} =10V, f=1MHz | | 10 | | pF |
| Transition frequency | f _T | V _{CE} = 5 V, I _C = 10mA f=100MHz | 100 | | | MHz |

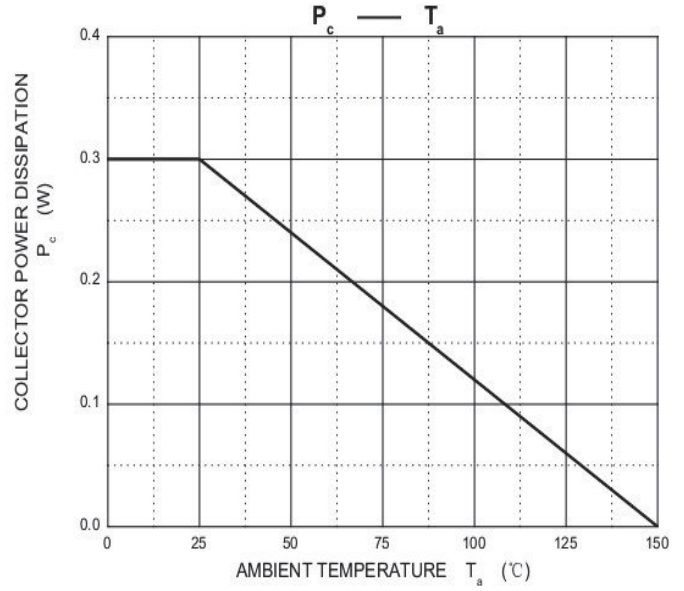
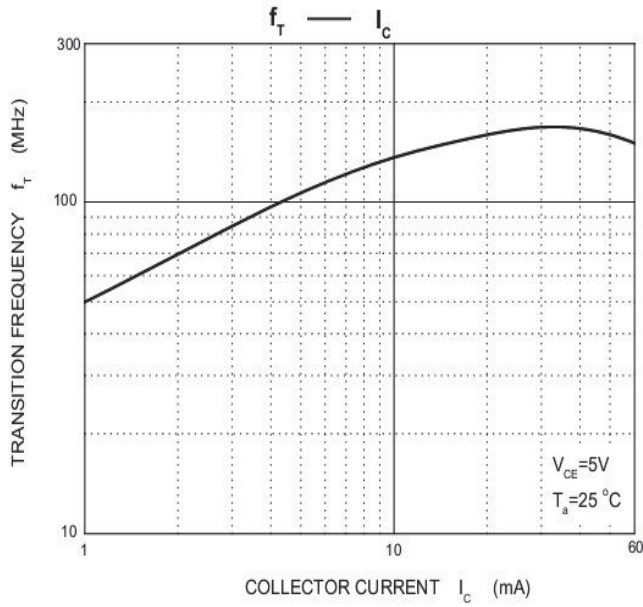
CLASSIFICATION OF h_{FE} (1)

| Rank | BC817-16 | BC817-25 | BC817-40 |
|---------|----------|----------|----------|
| Range | 100-250 | 160-400 | 250-600 |
| Marking | 6A | 6B | 6C |

Typical Characteristics BC817



Typical Characteristics BC817



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