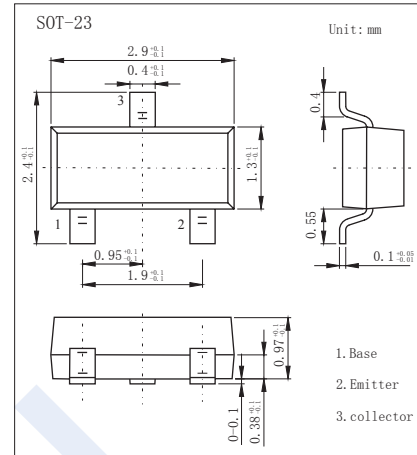


PNP Transistors

2SA1839

■ Features

- Small output capacitance.
- Low collector-to-emitter saturation voltage.
- Low ON resistance.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--------------------------------|------------------|------------|------|
| Collector - Base Voltage | V _{CBO} | -15 | V |
| Collector - Emitter Voltage | V _{CEO} | -10 | |
| Emitter - Base Voltage | V _{EBO} | -5 | |
| Collector Current - Continuous | I _C | -100 | mA |
| Collector Current - Pulse | I _{CP} | -200 | |
| Base Current | I _B | -20 | |
| Collector Power Dissipation | P _C | 250 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature range | T _{stg} | -55 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-------|-------|------|
| Collector- base breakdown voltage | V _{CBO} | I _C = -100 μA, I _E =0 | -15 | | | V |
| Collector- emitter breakdown voltage | V _{CEO} | I _C = -1 mA, R _{BE} =∞ | -10 | | | |
| Emitter - base breakdown voltage | V _{EBO} | I _E = -100 μA, I _C =0 | -5 | | | |
| Collector-base cut-off current | I _{CBO} | V _{CB} = -12 V, I _E =0 | | | -100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} = -4V, I _C =0 | | | -100 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-10mA, I _B =-1mA | | -0.04 | -0.15 | V |
| Base - emitter saturation voltage | V _{BE(sat)} | I _C =-10mA, I _B =-1mA | | -0.82 | -1.1 | |
| DC current gain | h _{FE} | V _{CE} = -2V, I _C = -5mA | 200 | | 600 | |
| On Resistance | R _{on} | I _B = -3mA, f=1MHz | | 3 | | Ω |
| Collector output capacitance | C _{ob} | V _{CB} = -10V, I _E = 0, f=1MHz | | 0.9 | | pF |
| Transition frequency | f _T | V _{CE} = - 5 V, I _C = -10mA | | 600 | | MHz |

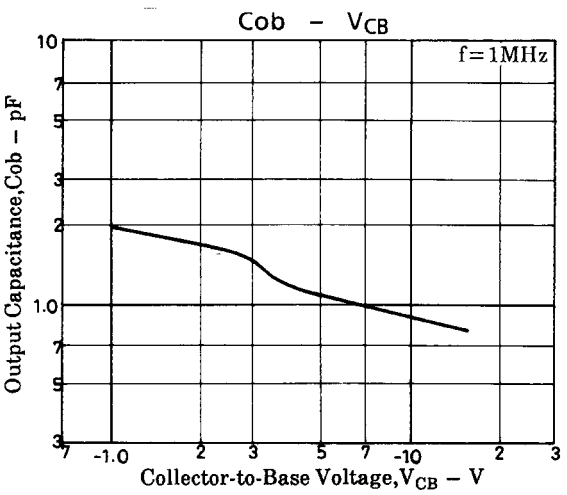
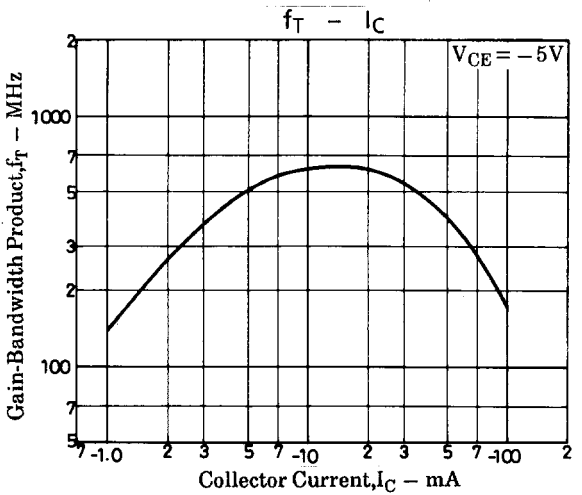
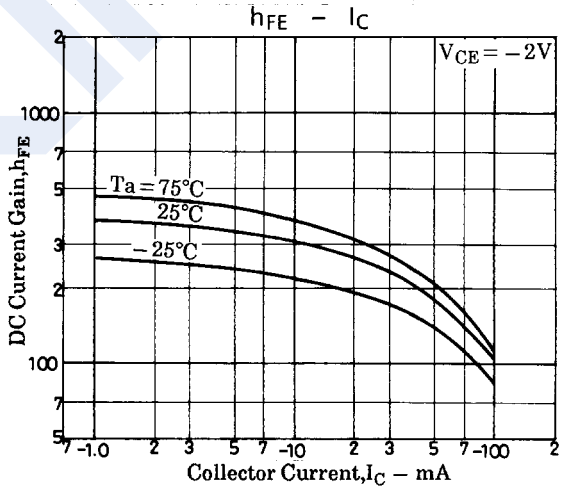
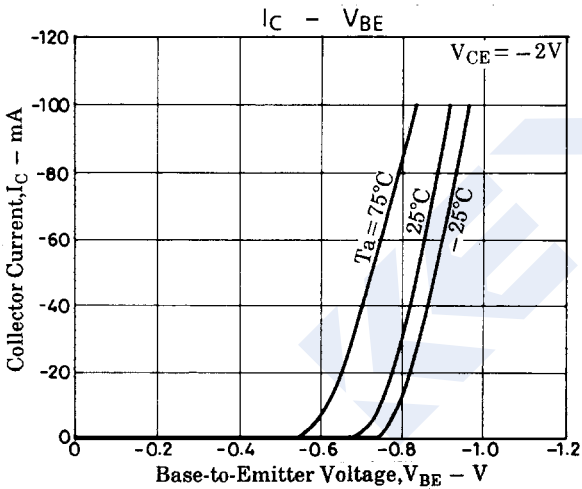
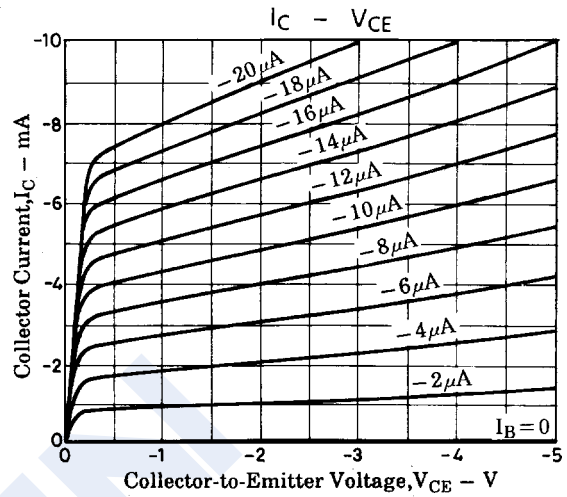
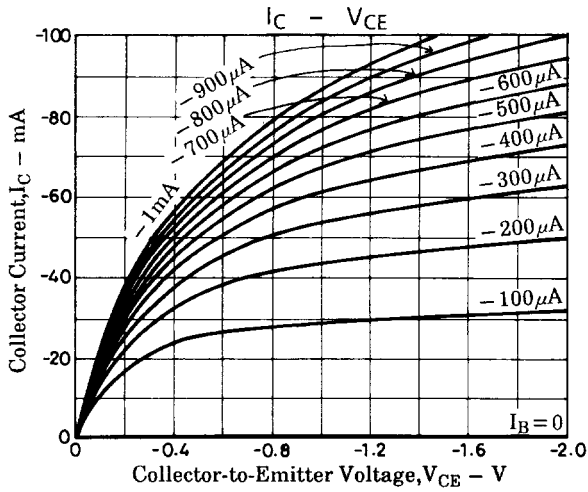
■ Marking

| | |
|---------|----|
| Marking | LS |
|---------|----|

PNP Transistors

2SA1839

■ Typical Characteristics



PNP Transistors

2SA1839

■ Typical Characteristics

