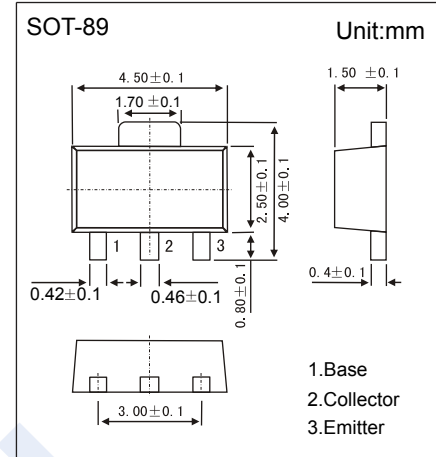
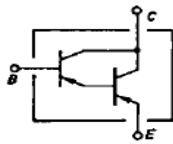


PNP Transistors

2SB1125

■ Features

- Collector Current Capability $I_C = -0.7A$
- Collector Emitter Voltage $V_{CE0} = -50V$
- Complements the 2SD1625



■ Absolute Maximum Ratings $T_a = 25^\circ C$

| Parameter | Symbol | Rating | Unit |
|---|-----------|------------|------------|
| Collector - Base Voltage | V_{CB0} | -80 | V |
| Collector - Emitter Voltage | V_{CE0} | -50 | |
| Emitter - Base Voltage | V_{EB0} | -10 | |
| Collector Current - Continuous | I_C | -0.7 | A |
| Collector Current - Pulse | I_{CP} | -2 | |
| Collector Power Dissipation (Note.1) | P_D | 0.5 1.3 | W |
| Junction Temperature | T_J | 150 | |
| Storage Temperature range | T_{stg} | -55 to 150 | $^\circ C$ |

Note.1: mounted on ceramic substrate (250mm²X0.8mm)

■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---------------------------------|------|-----|------|---------|
| Collector- base breakdown voltage | V_{CB0} | $I_C = -100 \mu A, I_E = 0$ | -80 | | | V |
| Collector- emitter breakdown voltage | V_{CE0} | $I_C = -10 mA, R_{BE} = \infty$ | -50 | | | |
| Emitter - base breakdown voltage | V_{EB0} | $I_E = -100 \mu A, I_C = 0$ | -10 | | | |
| Collector-base cut-off current | I_{CB0} | $V_{CB} = -40 V, I_E = 0$ | | | -0.1 | μA |
| Emitter cut-off current | I_{EB0} | $V_{EB} = -8V, I_C = 0$ | | | -0.1 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -100mA, I_B = -0.1mA$ | | | -1.2 | V |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_C = -100mA, I_B = -0.1mA$ | | | -2 | |
| DC current gain | h_{FE} | $V_{CE} = -2V, I_C = -50mA$ | 5000 | | | |
| | | $V_{CE} = -2V, I_C = -500mA$ | 3000 | | | |
| Collector output capacitance | C_{ob} | $V_{CB} = -10V, f = 1MHz$ | | 18 | | pF |
| Transition frequency | f_T | $V_{CB} = -5V, I_C = -50mA$ | | 170 | | MHZ |

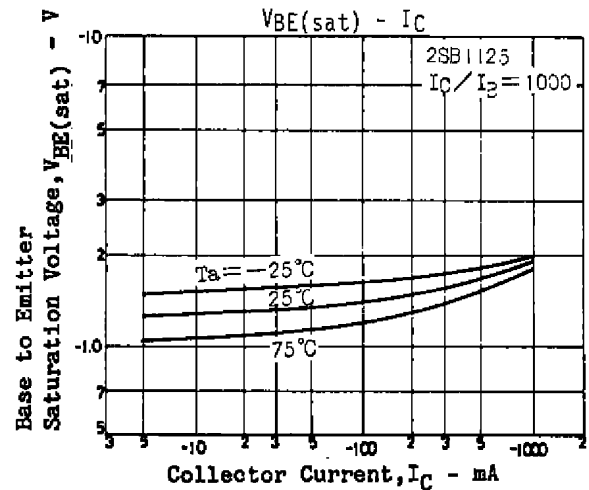
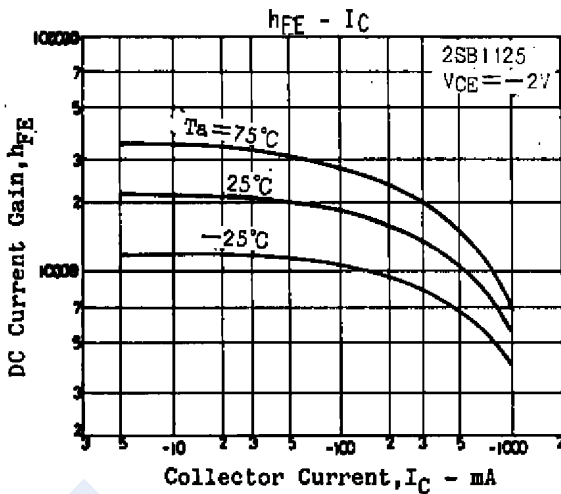
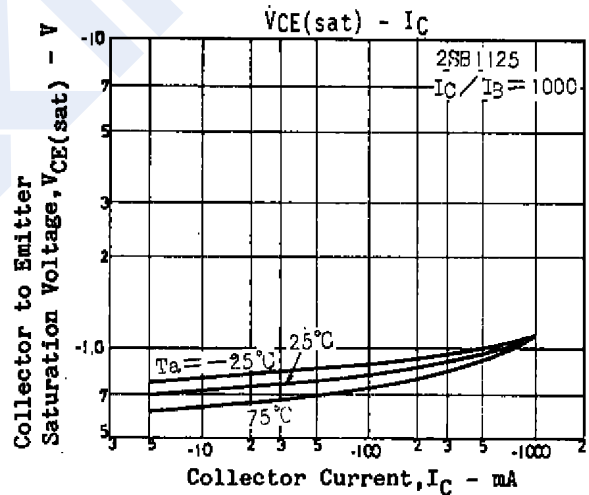
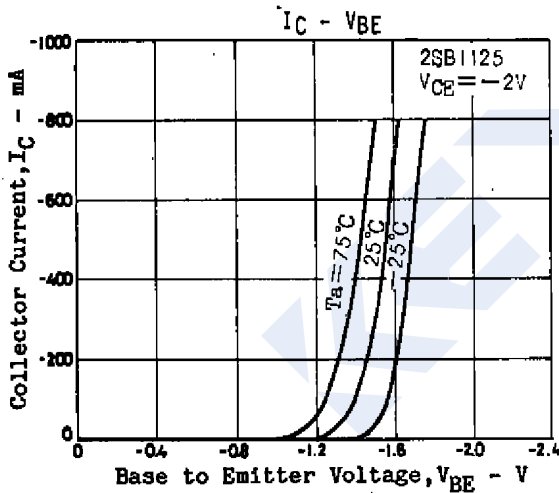
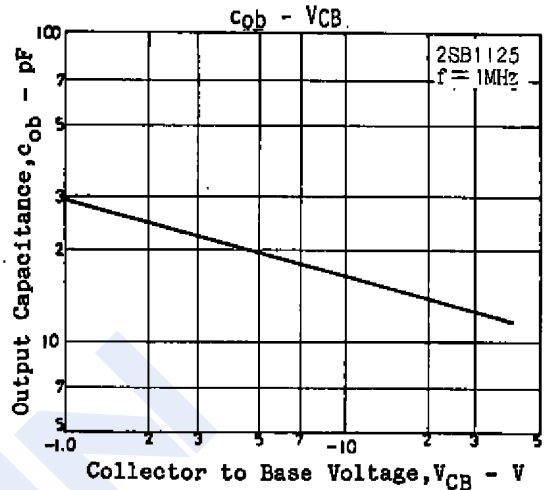
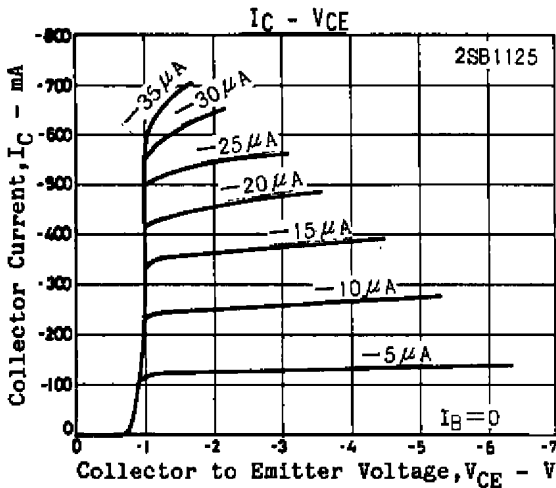
■ Marking

| | |
|---------|----|
| Marking | BH |
|---------|----|

PNP Transistors

2SB1125

■ Typical Characteristics



PNP Transistors

2SB1125

■ Typical Characteristics

