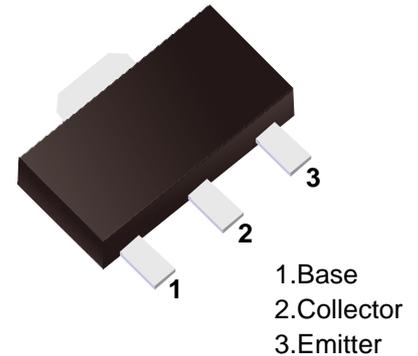


PNP Transistors



■ Simplified outline(SOT-89)

■ Features

- Low $V_{CE(sat)}$
- Compliments to 2SD1664

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

| Parameter | Symbol | Rating | Unit |
|--|-----------|-------------|------------------|
| Collector-Base Voltage | V_{CBO} | -40 | V |
| Collector-Emitter Voltage | V_{CEO} | -32 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current (DC) Single pulse, $P_w=100\text{ms}$ | I_c | -1 | A |
| | | -2 | A |
| Collector Power Dissipation | P_c * | 0.5 | W |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature Range | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

* When mounted on a 40x40x0.7mm ceramic board.

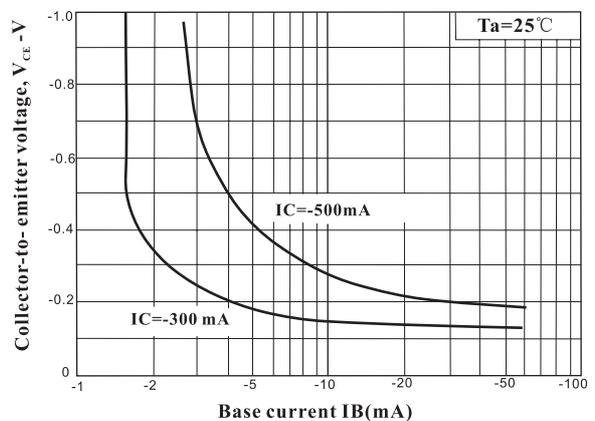
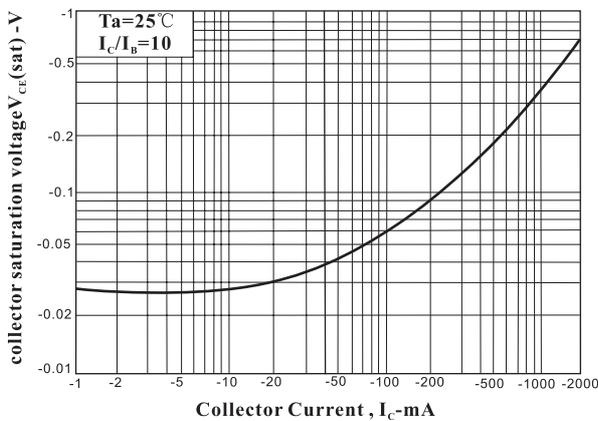
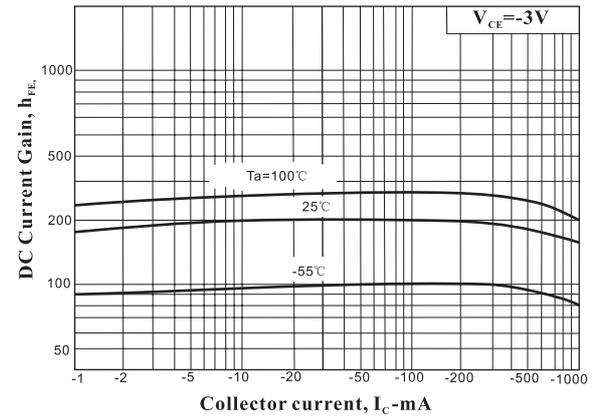
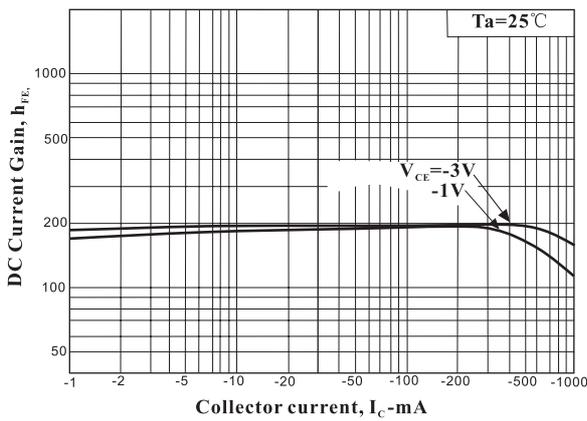
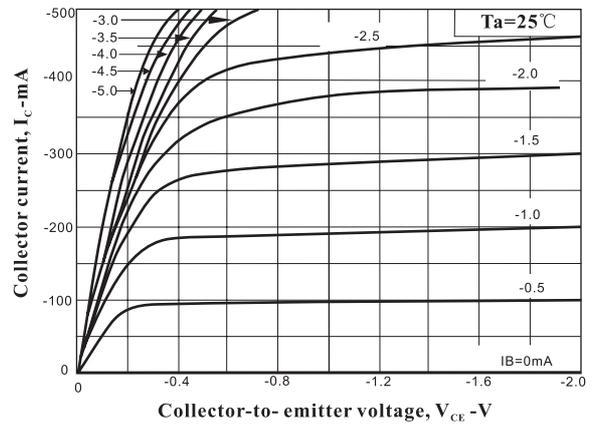
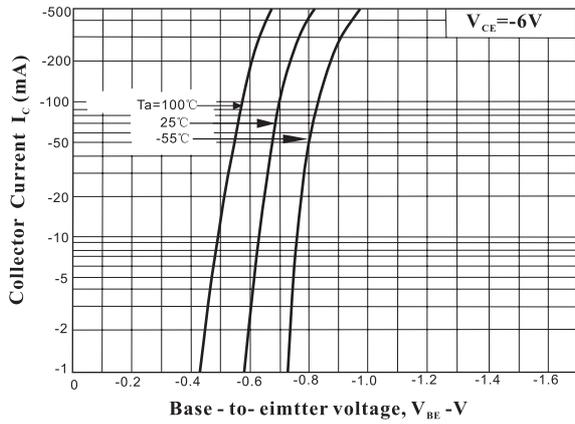
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--|-----|------|------|---------------|
| Collector- base breakdown voltage | V_{CBO} | $I_c = -50\mu\text{A}, I_E = 0$ | -40 | | | V |
| Collector- emitter breakdown voltage | V_{CEO} | $I_c = -1\text{ mA}, I_B = 0$ | -32 | | | |
| Emitter - base breakdown voltage | V_{EBO} | $I_E = -50\mu\text{A}, I_C = 0$ | -5 | | | |
| Collector-base cut-off current | I_{CBO} | $V_{CB} = -20\text{ V}, I_E = 0$ | | | -0.5 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -4\text{ V}, I_C = 0$ | | | -0.5 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -500\text{ mA}, I_B = -50\text{mA}$ | | -0.2 | -0.5 | V |
| DC current gain | h_{FE} | $V_{CE} = -3\text{V}, I_c = -0.1\text{A}$ | 82 | | 390 | |
| Collector output capacitance | C_{ob} | $V_{CB} = -10\text{V}, I_E = 0\text{mA}, f = 1\text{MHz}$ | | 20 | 30 | pF |
| Transition frequency | f_T | $V_{CE} = -5\text{V}, I_E = 50\text{mA}, f = 30\text{MHz}$ | | 150 | | MHz |

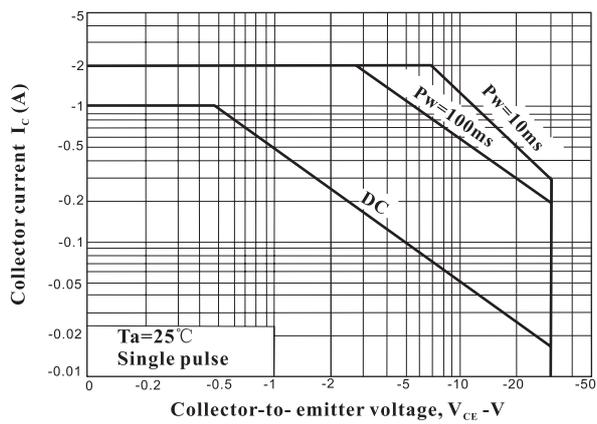
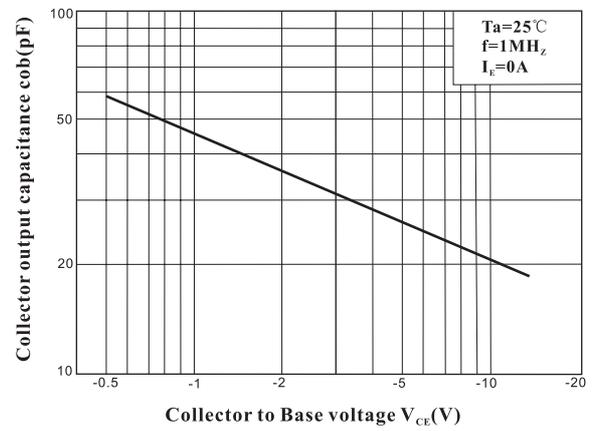
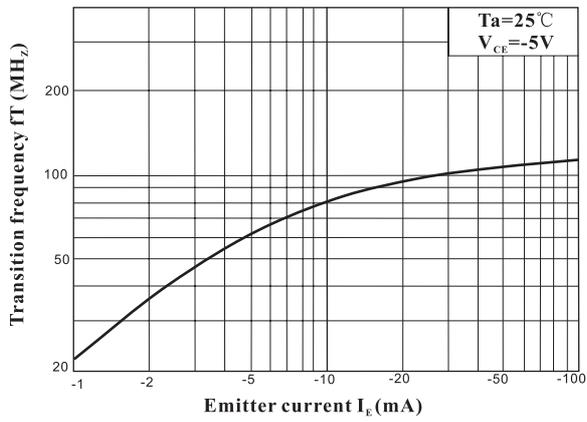
■ h_{FE} Classification

| Type | 2SB1132-P | 2SB1132-Q | 2SB1132-R |
|---------|-----------|-----------|-----------|
| Range | 82-180 | 120-270 | 180-390 |
| Marking | BAP* | BAQ* | BAR* |

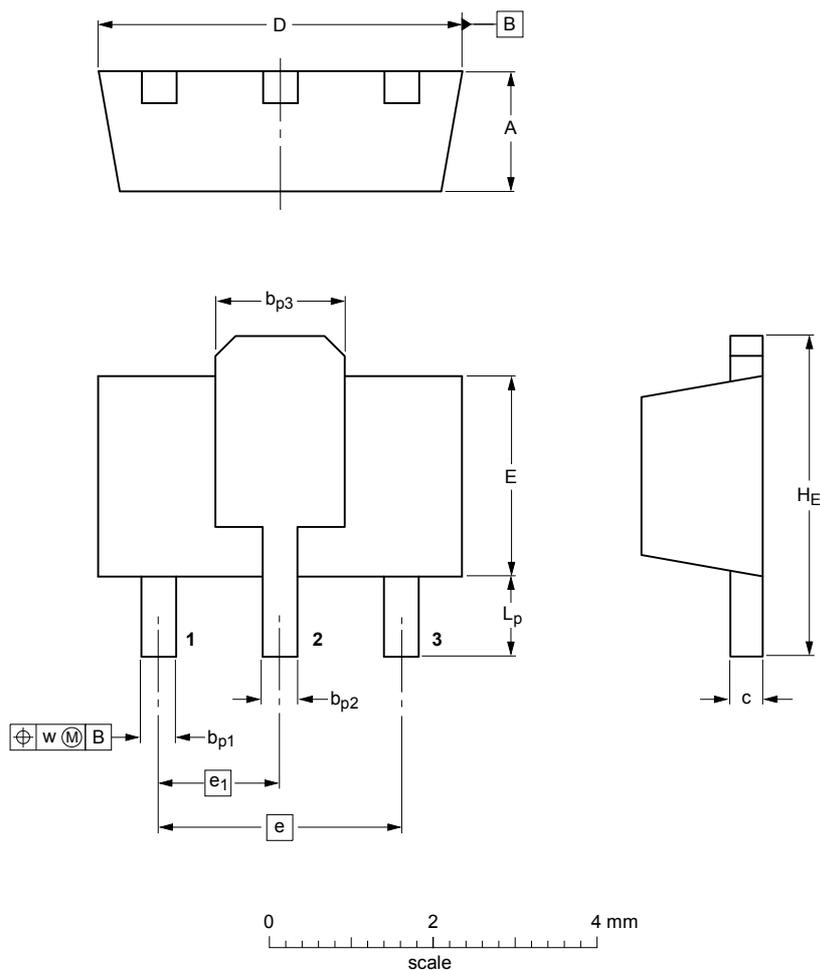
■ Typical Characteristics



■ Typical Characteristics



■ SOT-89



DIMENSIONS (mm are the original dimensions)

| UNIT | A | b_{p1} | b_{p2} | b_{p3} | c | D | E | e | e_1 | H_E | L_p | w |
|------|-----|----------|----------|----------|------|-----|-----|-----|-------|-------|-------|------|
| mm | 1.6 | 0.48 | 0.53 | 1.8 | 0.44 | 4.6 | 2.6 | 3.0 | 1.5 | 4.25 | 1.2 | 0.13 |
| | 1.4 | 0.35 | 0.40 | 1.4 | 0.23 | 4.4 | 2.4 | | | | | |