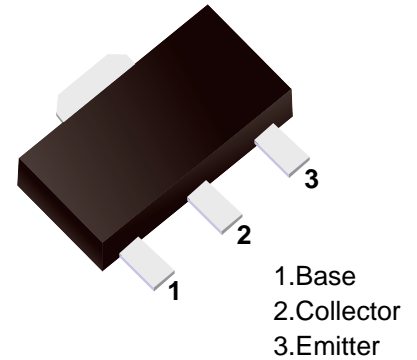


B772

PNP Transistors

Features

- PNP transistor High current output up to 3A
- Low Saturation Voltage
- Complement to 2SD882



■ Simplified outline(SOT-89)

Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---------------------------------|------------------|------------|------|
| Collector to Base Voltage | V _{CB0} | -40 | V |
| Collector to Emitter Voltage | V _{CEO} | -30 | V |
| Emitter to Base Voltage | V _{EB0} | -6 | V |
| Collector Current to Continuous | I _c | -3 | A |
| Collector Dissipation | P _c | 0.5 | W |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature | T _{stg} | -55 to 150 | °C |

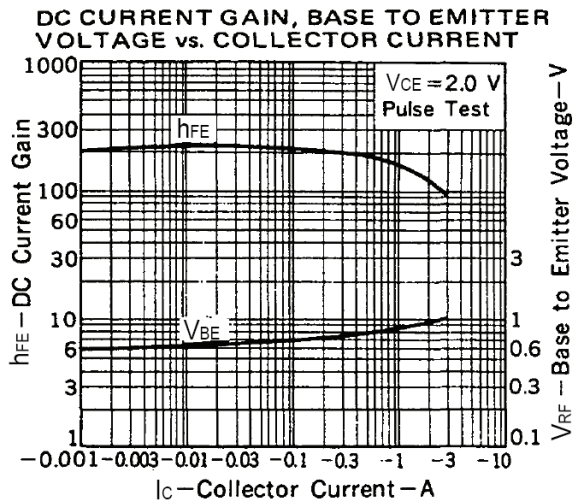
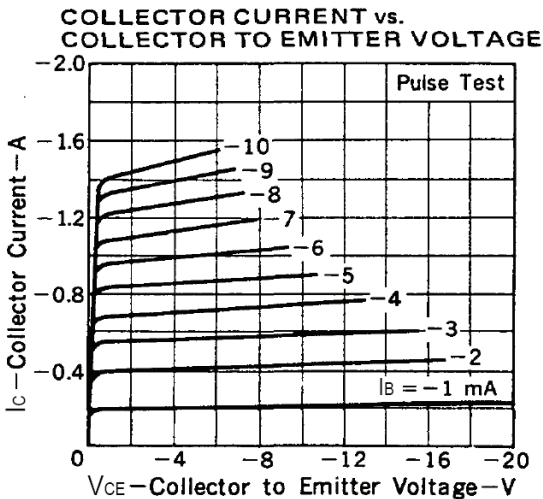
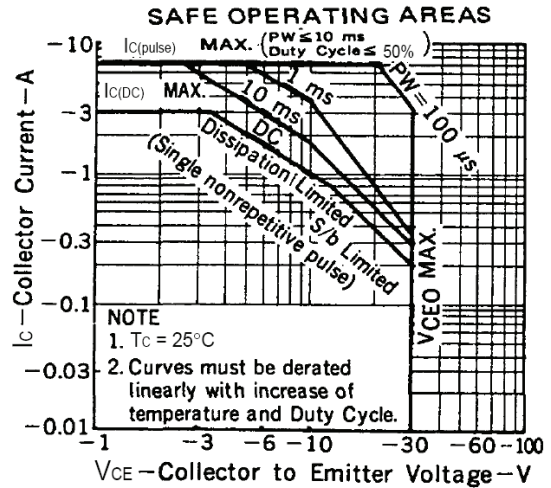
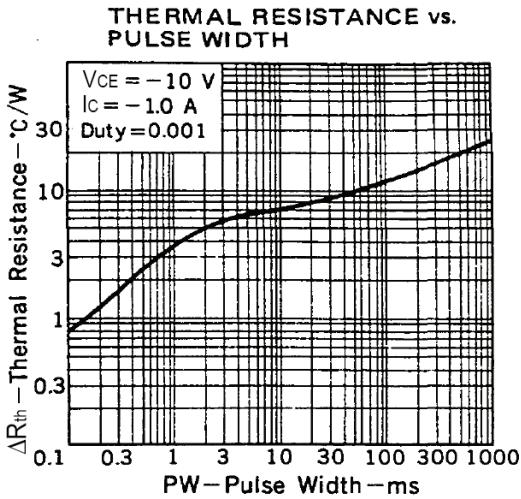
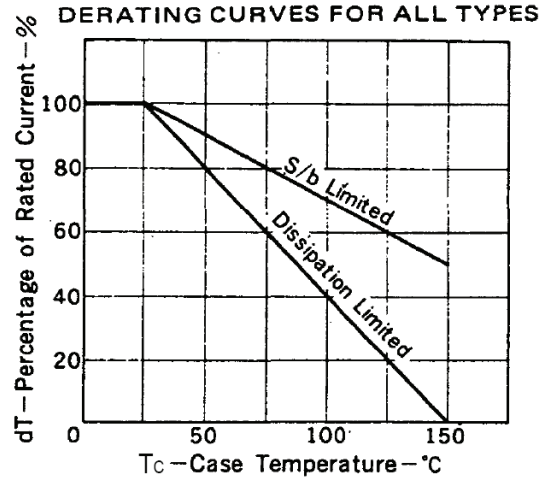
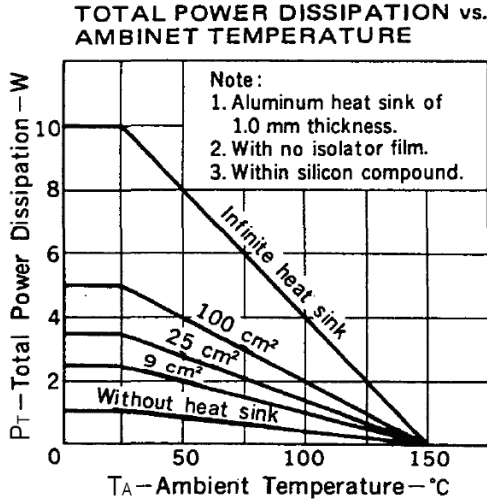
Electrical Characteristics Ta = 25°C

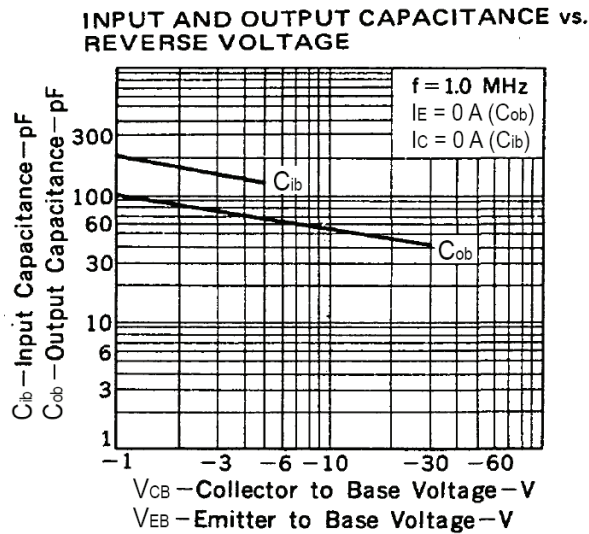
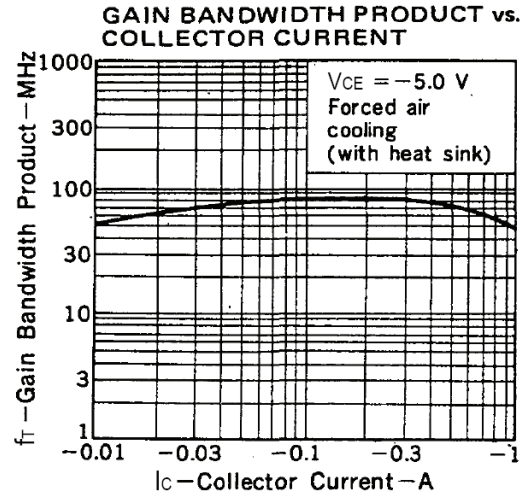
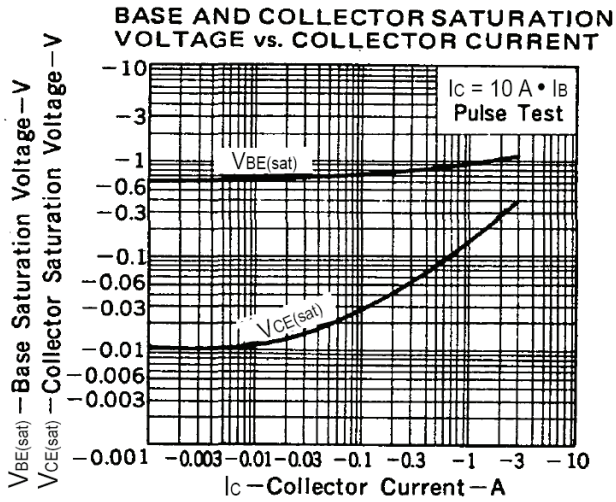
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|------|------|
| Collector-base breakdown voltage | V _{CB0} | I _c =-100μA, I _E =0 | -40 | | | V |
| Collector-emitter breakdown voltage | V _{CEO} | I _c = -10 mA, I _B =0 | -30 | | | V |
| Emitter-base breakdown voltage | V _{EB0} | I _E = -100 μA, I _c =0 | -6 | | | V |
| Collector cut-off current | I _{CB0} | V _{CB} =-40 V, I _E =0 | | | -1 | μA |
| Emitter cut-off current | I _{EB0} | V _{EB} =-6V, I _c =0 | | | -1 | μA |
| DC current gain | h _{FE} | V _{CE} = -2V, I _c = -1A | 60 | | 400 | |
| | | V _{CE} =-2V, I _c = -100mA | 32 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _c =-2A, I _B = -0.2A | | | -0.5 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | I _c =-2A, I _B = -0.2A | | | -1.5 | V |
| Transition frequency | f _T | V _{CE} =-5 V, I _c =-0.1mA, f = 10MHz | 50 | | | MHz |

Classification of h_{FE}(1)

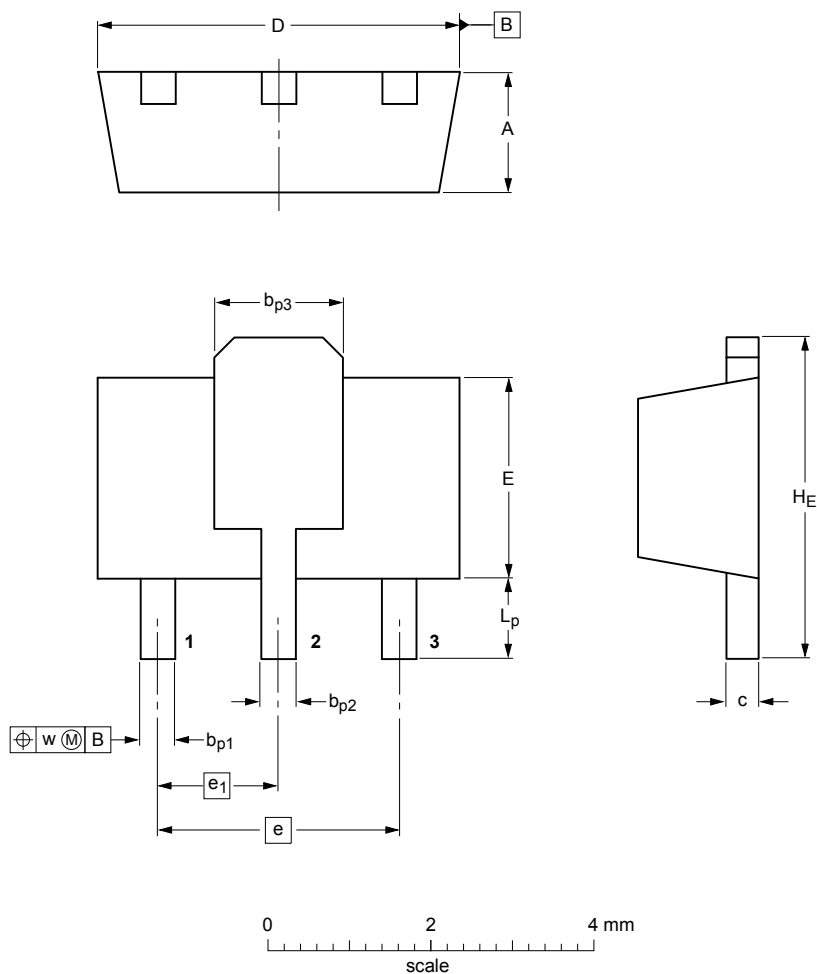
| Type | 2SB772-R | 2SB772-Q | 2SB772-P | 2SB772-E |
|-------|----------|----------|----------|----------|
| Range | 60-120 | 100-200 | 160-320 | 200-400 |

■ 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 | | | 3.75 | 0.8 | |