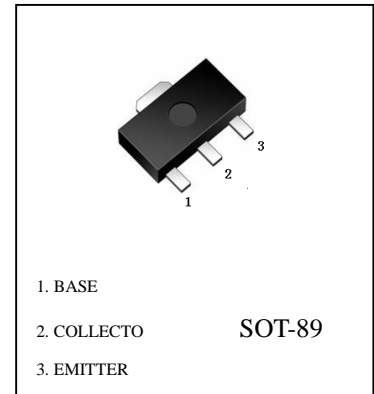


**FEATURES**

Power dissipation

Marking : 772

**B772(PNP)**

**MAXIMUM RATINGS (TA=25°C unless otherwise noted)**

| Parameter                     | Symbol    | Value   | Unit |
|-------------------------------|-----------|---------|------|
| Collector-Base Voltage        | $V_{CBO}$ | -40     | V    |
| Collector-Emitter Voltage     | $V_{CEO}$ | -30     | V    |
| Emitter-Base Voltage          | $V_{EBO}$ | -6      | V    |
| Collector Current -Continuous | $I_C$     | -3000   | mA   |
| Collector Power Dissipation   | $P_C$     | 500     | mW   |
| Storage Temperature           | $T_{stg}$ | -55-150 | °C   |

**ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)**

| Parameter                            | Symbol        | Test conditions                            | Min | Typ | Max  | Unit    |
|--------------------------------------|---------------|--|-----|-----|------|---------|
| Collector-base breakdown voltage     | $V_{CBO}$     | $I_C = -100\mu A, I_E = 0$                 | -40 |     |      | V       |
| Collector-emitter breakdown voltage  | $V_{CEO}$     | $I_C = -10mA, I_B = 0$                     | -30 |     |      | V       |
| Emitter-base breakdown voltage       | $V_{EBO}$     | $I_E = -100\mu A, I_C = 0$                 | -6  |     |      | V       |
| Collector cut-off current            | $I_{CBO}$     | $V_{CB} = -40V, I_E = 0$                   |     |     | -1   | $\mu A$ |
| Collector cut-off current            | $I_{CEO}$     | $V_{CE} = -30V, I_B = 0$                   |     |     | -10  | $\mu A$ |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB} = -6V, I_C = 0$                    |     |     | -1   | $\mu A$ |
| DC current gain                      | $h_{FE}$      | $V_{CE} = -2V, I_C = -1A$                  | 60  |     | 400  |         |
| 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                 | $f_T$         | $V_{CE} = -5V, I_C = -0.1A$<br>$f = 10MHz$ |     | 80  |      | MHz     |

**CLASSIFICATION OF HFE**

| Rank  | R      | O       | Y       | GR      |
|-------|--------|---------|---------|---------|
| Range | 60-120 | 100-200 | 160-320 | 200-400 |

**B772** Typical Characteristics

