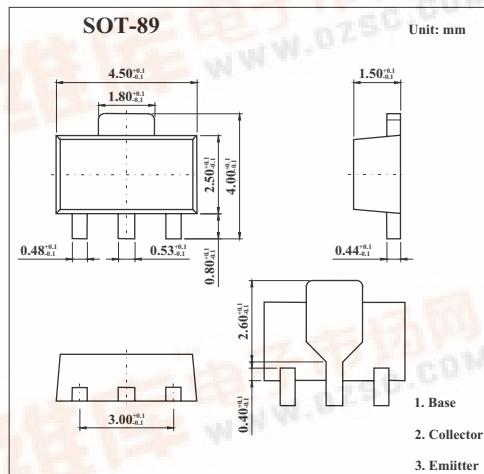


SMD Type

Transistors

Power Transistor

2SA1797



■ Features

- Low saturation voltage. $V_{CE(sat)} = -0.35V$ (Max.) at $I_C / I_B = -1A / -50mA$.
- Excellent DC current gain characteristics.
- Complements the 2SA1797 and 2SC4672.

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

| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------|
| Collector-emitter Voltage | V_{CEO} | -50 | V |
| Collector-base Voltage | V_{CBO} | -50 | V |
| Emitter-base Voltage | V_{EBO} | -6 | V |
| Collector current | I_C | -3 | A |
| Collector power dissipation | P_C | 0.5 | W |
| Junction temperature | T_J | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

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

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--|-------|-------|------|---------|
| Collector-emitter breakdown voltage | BV_{CEO} | $I_C = -1mA$ | -50 | | | V |
| Collector-base breakdown voltage | BV_{CBO} | $I_C = -50 \mu A$ | -50 | | | V |
| Emitter-base breakdown voltage | BV_{EBO} | $I_E = -50 \mu A$ | -6 | | | V |
| Collector cutoff current | I_{CBO} | $V_{CB} = -50V$ | | | -0.1 | μA |
| Emitter cutoff current | I_{EBO} | $V_{EB} = -5V$ | | | -0.1 | μA |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -1A, I_B = -50mA$ | -0.15 | -0.35 | | V |
| DC current transfer ratio | h_{FE} | $V_{CE} = -2V, I_C = -0.5A$ | 82 | | 270 | |
| Transition frequency | f_T | $V_{CE} = -2V, I_E = 0.5A, f = 100MHz$ | | 200 | | MHz |
| Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0A, f = 1MHz$ | | 36 | | pF |

■ hFE Classification

| Marking | AG | |
|---------|--------|---------|
| Rank | P | Q |
| hFE | 82~180 | 120~270 |