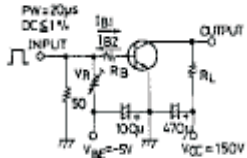


2SA1772

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit | |
|--------------------------|----------------------|--|------|------|------|------|--|
| Collector Cutoff Current | I _{CBO} | V _{CB} =-300V, I _E =0 | | | -0.1 | μA | |
| Emitter Cutoff Current | I _{EBO} | V _{EB} =-4V, I _C =0 | | | -0.1 | μA | |
| DC Current Gain* | hFE | V _{CE} =-10V, I _C =-100mA | 40 | | 200 | | |
| Gain- Bandwidth Product | f _T | V _{CE} =-10V, I _C =-50mA | | 50 | | MHz | |
| C-E Saturation Voltage | V _{CE(sat)} | I _C =-200mA, I _B =-20mA | | | -1.0 | V | |
| B-E Saturation Voltage | V _{BE(sat)} | I _C =-200mA, I _B =-20mA | | | -1.0 | V | |
| C-B Breakdown Voltage | V _{(BR)CBO} | I _C =-10μA, I _E =0 | -400 | | | V | |
| C-E Breakdown Voltage | V _{(BR)CEO} | I _C =-1mA, R _{BE} =∞ | -400 | | | V | |
| E-B Breakdown Voltage | V _{(BR)EBO} | I _E =-10μA, I _C =0 | -5 | | | V | |
| Output Capacitance | C _{ob} | V _{CB} =-30V, f=1MHz | | 12 | | pF | |
| Turn-ON Time | t _{on} |  <p> $PW=20\mu s$ $DC \leq 1\%$ $I_{B1} = -10I_{B2} = I_C = 200mA$ $R_1 = 750\Omega, R_2 = 50\Omega, \text{ at } I_C = 200mA$ (For PNP, the polarity is reversed.) Unit (Resistance : Ω, Capacitance : F) </p> | | 0.25 | | μs | |
| Storage Time | t _{stg} | | | | 3 | | |
| Fall Time | t _f | | | | 0.3 | | |

■ hFE Classification

| Rank | C | D | E |
|------|----------|-----------|------------|
| hFE | 40 to 80 | 60 to 120 | 100 to 200 |