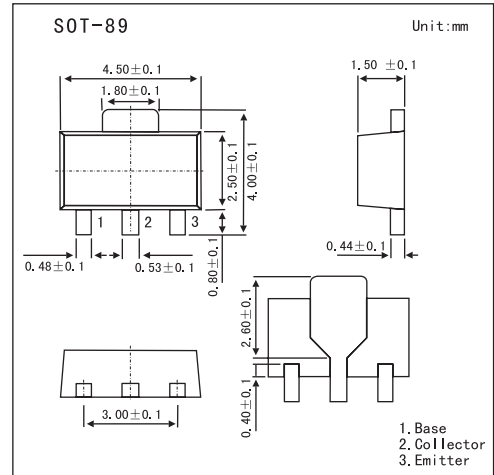


■ Features

- High f_T ($f_T = 1.5\text{GHz typ.}$)
- High Current ($I_C = 300\text{mA}$).
- Adoption of FBET process.



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

| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------------|
| Collector-Base Voltage | V_{CB0} | -30 | V |
| Collector-Emitter Voltage | V_{CEO} | -20 | V |
| Emitter-Base Voltage | V_{EB0} | -3 | V |
| Collector Current | I_C | -300 | mA |
| Collector Current (Pulse) | I_{CP} | -600 | mA |
| Collector Power Dissipation | P_C | 500 | mW |
| | P_{C^*} | 1300 | |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature Range | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

* Mounted on ceramic board (250 mm² x 0.8 mm)

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

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--|-----|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -20\text{V}, I_E = 0$ | | | -0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -2\text{V}, I_C = 0$ | | | -0.1 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = -5\text{V}, I_C = -50\text{mA}$ | 15 | | 100 | |
| | | $V_{CE} = -5\text{V}, I_C = -300\text{mA}$ | 5 | | | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -100\text{mA}, I_B = -10\text{mA}$ | | -0.4 | -1.0 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C = -100\text{mA}, I_B = -10\text{mA}$ | | -0.9 | -1.2 | V |
| Transition Frequency | f_T | $V_{CE} = -5\text{V}, I_C = -100\text{mA}$ | | 1.5 | | GHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | | 4.9 | | pF |
| Reverse Transfer Capacitance | C_{re} | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | | 4.4 | | pF |

■ Marking

| | |
|---------|----|
| Marking | AJ |
|---------|----|



■ Electrical Characteristics Curves

