

● Features

- World standard miniature package:SOT-89
- High collector to base voltage: $V_{CB0} > -100V$
- Excellent DC current gain linearity.



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

| Parameter | Symbol | Rating | Unit |
|------------------------------|-----------|-------------|------------|
| Collector to base voltage | V_{CB0} | -100 | V |
| Collector to emitter voltage | V_{CEO} | -80 | V |
| Emitter to base voltage | V_{EBO} | -5 | V |
| Collector current | I_c | -1 | mA |
| Collector current(Pulse) * | I_c | -1.5 | mA |
| Total power dissipation | P_T | 2 | W |
| Junction temperature | T_j | 150 | $^\circ C$ |
| Storage temperature range | T_{stg} | -55 to +150 | $^\circ C$ |

* $PW \leq 10ms$, duty cycle $\leq 50\%$.

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

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|--------------------------------|---------------|--|------|-------|------|------|
| Collector cutoff current | I_{CBO} | $V_{CB} = -100 V, I_E = 0$ | | | -100 | nA |
| Emitter cutoff current | I_{EBO} | $V_{EB} = -5.0 V, I_C = 0$ | | | -100 | nA |
| DC current gain * | hFE | $V_{CE} = -2.0 V, I_C = -100 mA$ | 90 | 200 | 400 | |
| | | $V_{CE} = -2.0 V, I_C = -500 mA$ | 25 | 80 | | |
| Collector saturation voltage * | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | | -0.29 | -0.5 | V |
| Base saturation voltage * | $V_{BE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | | -0.9 | -1.5 | V |
| Base-emitter voltage * | V_{BE} | $V_{CE} = -10 V, I_C = -10 mA$ | -600 | -640 | -700 | mV |
| Gain bandwidth product | f_T | $V_{CE} = -5.0 V, I_E = 10 mA$ | | 80 | | MHz |
| Output capacitance | C_{ob} | $V_{CB} = -10 V, I_E = 0, f = 1.0 MHz$ | | 26 | | pF |

* Pulsed: $PW \leq 350 \mu s$, duty cycle $\leq 2\%$

● hFE Classification

| Marking | AW | AV | AU |
|---------|--------|---------|---------|
| hFE | 90~180 | 135~270 | 200~400 |

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