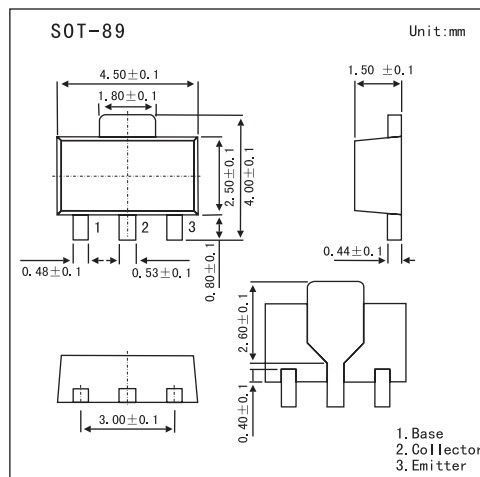


■ Features

- Low Saturation Voltage: $V_{CE(sat)} = -0.5V$ (max) ($I_C = -1A$)
- High Speed Switching Time: $t_{stg} = 1.0\mu s$ (typ.)
- Small Flat Package
- $P_c = 1$ to 2W (mounted on ceramic substrate)
- Complementary to 2SC2873



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

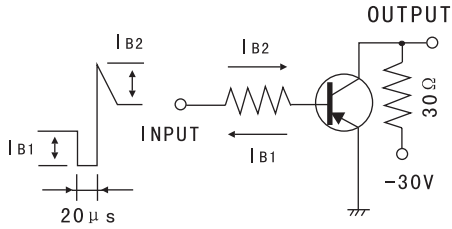
| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------|
| Collector-Base Voltage | V_{CB0} | -50 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -2 | A |
| Base Current | I_B | -0.4 | A |
| Collector Power Dissipation | P_c | 500 | mW |
| | P_{c^*} | 1000 | |
| Jumction temperature | T_j | 150 | $^\circ C$ |
| Storage temperature Range | T_{stg} | -55 to +150 | $^\circ C$ |

* Mounted on ceramic substrate (250 mm² x 0.8 t)

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

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|--------------------------------------|---------------|------------------------------------|-----|-----|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -50V, I_E = 0$ | | | -0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5V, I_C = 0$ | | | -0.1 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -10mA, I_B = 0$ | -50 | | | V |
| DC Current Gain | h_{FE} | $V_{CE} = -2V, I_C = -0.5A$ | 70 | | 240 | |
| | | $V_{CE} = -2V, I_C = -2.0A$ | 20 | | | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -1A, I_B = -0.05A$ | | | -0.5 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C = -1A, I_B = -0.05A$ | | | -1.2 | V |
| Transition Frequency | f_T | $V_{CE} = -2V, I_C = -0.5A$ | | 120 | | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | | 40 | | pF |
| Turn-On Time | t_{on} | See Test Circuit. | | 0.1 | | μs |
| Storage Time | t_{stg} | | | 1.0 | | |
| Fall Time | t_f | | | 0.1 | | |

Test Circuit



$-I_{B1} = I_{B2} = 0.05A$, DUTY CYCLE $\leq 1\%$

hFE Classification

| | | |
|---------|----------|-----------|
| Marking | N | |
| Rank | O | Y |
| hFE | 70 ~ 140 | 120 ~ 240 |

Electrical Characteristics Curves

