

2SA2161J

Silicon PNP epitaxial planar type

For general amplification

Complementary to 2SC6037J

■ Features

- Low collector-emitter saturation voltage $V_{CE(sat)}$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

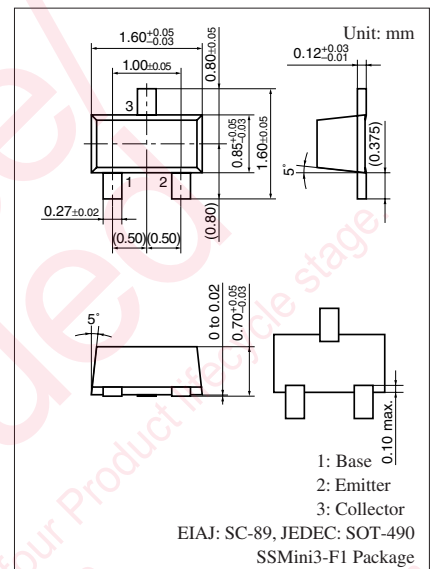
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|---------------------------------------|-----------|-------------|------------------|
| Collector-base voltage (Emitter open) | V_{CBO} | -15 | V |
| Collector-emitter voltage (Base open) | V_{CEO} | -12 | V |
| Emitter-base voltage (Collector open) | V_{EBO} | -5 | V |
| Collector current | I_C | -500 | mA |
| Peak collector current | I_{CP} | -1 | A |
| Collector power dissipation | P_C | 125 | mW |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

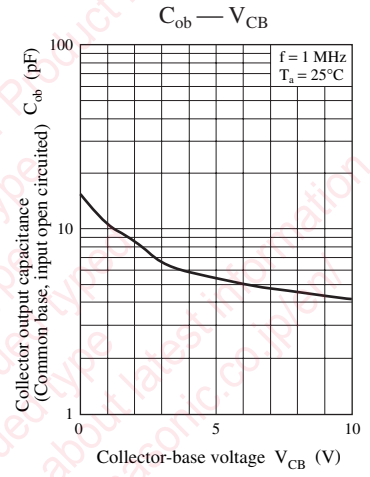
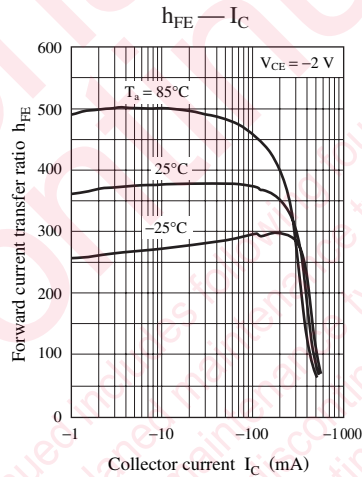
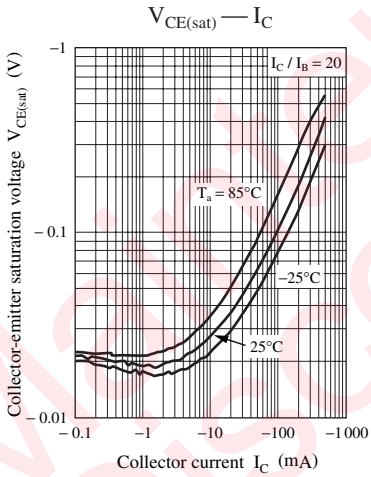
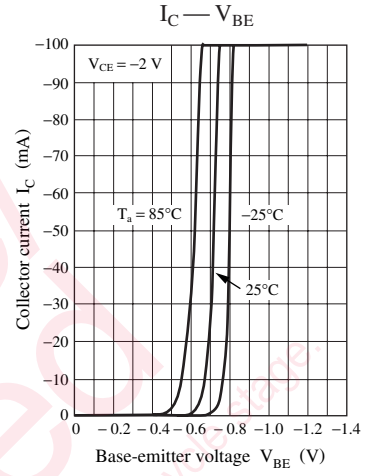
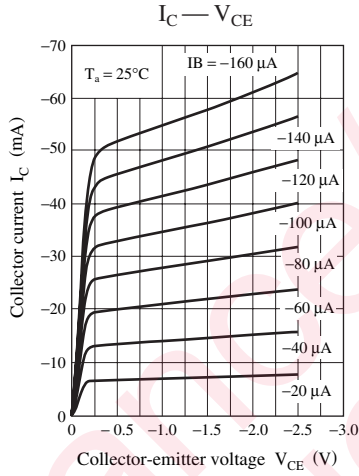
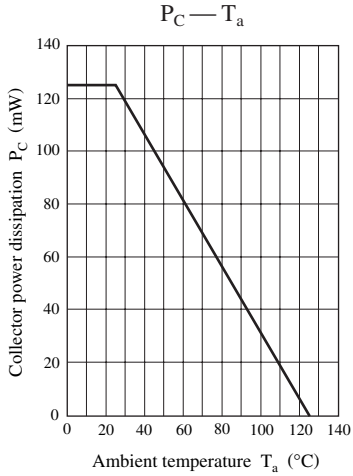
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---------------|---|-----|-----|------|---------------|
| Collector-base voltage (Emitter open) | V_{CBO} | $I_C = -10 \mu\text{A}$, $I_E = 0$ | -15 | | | V |
| Collector-emitter voltage (Base open) | V_{CEO} | $I_C = -1 \text{ mA}$, $I_B = 0$ | -12 | | | V |
| Emitter-base voltage (Collector open) | V_{EBO} | $I_E = -10 \mu\text{A}$, $I_C = 0$ | -5 | | | V |
| Collector-base cutoff current (Emitter open) | I_{CBO} | $V_{CB} = -15 \text{ V}$, $I_E = 0$ | | | -0.1 | μA |
| Forward current transfer ratio | h_{FE} | $V_{CE} = -2 \text{ V}$, $I_C = -10 \text{ mA}$ | 270 | | 680 | — |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -200 \text{ mA}$, $I_B = -10 \text{ mA}$ | | | -250 | mV |
| Transition frequency | f_T | $V_{CB} = -2 \text{ V}$, $I_E = 10 \text{ mA}$, $f = 200 \text{ MHz}$ | | 200 | | MHz |
| Collector output capacitance (Common base, input open circuited) | C_{ob} | $V_{CB} = 10 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$ | | 4.5 | | pF |

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.



Marking Symbol: 2U



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