Transistors

2SA2161J

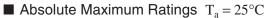
Silicon PNP epitaxial planar type

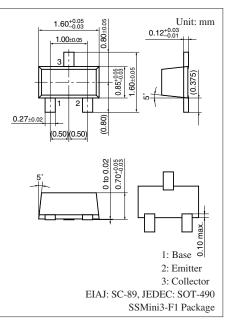
For general amplification Complementary to 2SC6037J

Features

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

| 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 | А | | | | | |
| Collector power dissipation | P _C | 125 | mW | | | | | |
| Junction temperature | Tj | 125 | °C | | | | | |
| Storage temperature | T _{stg} | -55 to +125 | °C | | | | | |





Marking Symbol: 2U

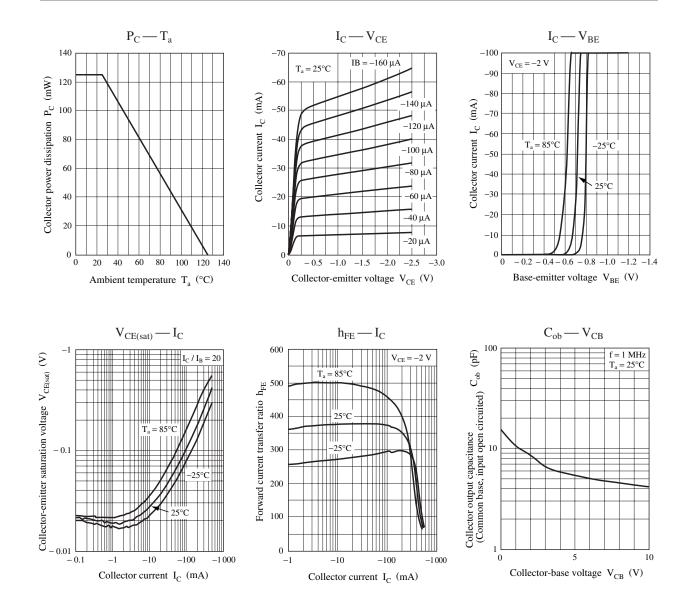
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

| Parameter | Symbol | Conditions | Min | Тур | Мах | Unit |
|----------------------------------------------|----------------------|-----------------------------------------------------------|-----|-----|-------|------|
| Collector-base voltage (Emitter open) | V _{CBO} | $I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$ | -15 | | | V |
| Collector-emitter voltage (Base open) | V _{CEO} | $I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$ | -12 | | | V |
| Emitter-base voltage (Collector open) | V _{EBO} | $I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$ | -5 | | | V |
| Collector-base cutoff current (Emitter open) | I _{CBO} | $V_{CB} = -15 \text{ V}, I_E = 0$ | | | - 0.1 | μΑ |
| Forward current transfer ratio | h _{FE} | $V_{CE} = -2 V, I_C = -10 mA$ | 270 | | 680 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_{\rm C} = -200 \text{ mA}, I_{\rm B} = -10 \text{ mA}$ | | | -250 | mV |
| Transition frequency | f _T | $V_{CB} = -2 V, I_E = 10 mA, f = 200 MHz$ | | 200 | | MHz |
| Collector output capacitance | C _{ob} | $V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ | | 4.5 | | pF |
| (Common base, input open circuited) | | | | | | |

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

2SA2161J

Panasonic



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