

2SC2480

Silicon NPN epitaxial planar type

For high-frequency amplification/oscillation/mixing

■ Features

- High transition frequency f_T
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing

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

| Parameter | Symbol | Rating | Unit |
|---------------------------------------|-----------|-------------|------------------|
| Collector-base voltage (Emitter open) | V_{CBO} | 30 | V |
| Collector-emitter voltage (Base open) | V_{CEO} | 20 | V |
| Emitter-base voltage (Collector open) | V_{EBO} | 3 | V |
| Collector current | I_C | 50 | mA |
| Collector power dissipation | P_C | 150 | mW |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

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

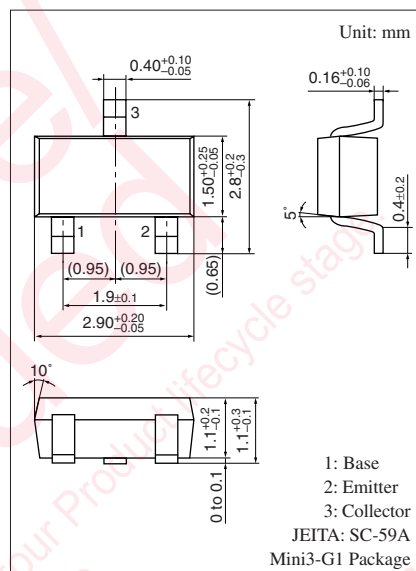
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|-----------|--|-----|------|------|------|
| Collector-base voltage (Emitter open) | V_{CBO} | $I_C = 100 \mu\text{A}$, $I_E = 0$ | 30 | | | V |
| Emitter-base voltage (Collector open) | V_{EBO} | $I_E = 10 \mu\text{A}$, $I_C = 0$ | 3 | | | V |
| Base-emitter voltage | V_{BE} | $V_{CB} = 10 \text{ V}$, $I_E = -2 \text{ mA}$ | | 720 | | mV |
| Forward current transfer ratio | h_{FE} | $V_{CB} = 10 \text{ V}$, $I_E = -2 \text{ mA}$ | 25 | | 250 | — |
| Transition frequency * | f_T | $V_{CB} = 10 \text{ V}$, $I_E = -15 \text{ mA}$, $f = 200 \text{ MHz}$ | 800 | 1300 | 1600 | MHz |
| Reverse transfer capacitance (Common base) | C_{rb} | $V_{CE} = 6 \text{ V}$, $I_C = 0$, $f = 1 \text{ MHz}$ | | 0.8 | | pF |
| Reverse transfer capacitance (Common emitter) | C_{re} | $V_{CB} = 10 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 10.7 \text{ MHz}$ | | 1.0 | 1.5 | pF |
| Power gain | G_P | $V_{CB} = 10 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 200 \text{ MHz}$ | | 20 | | dB |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

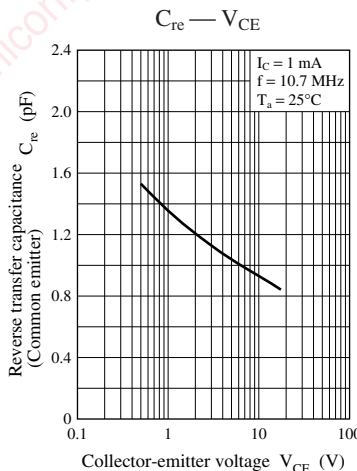
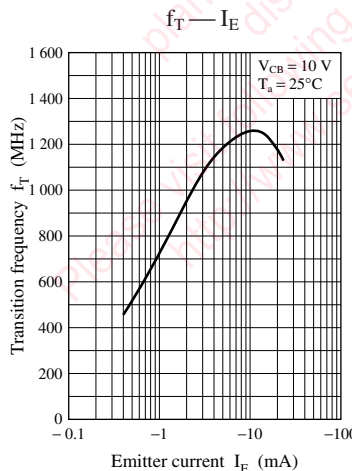
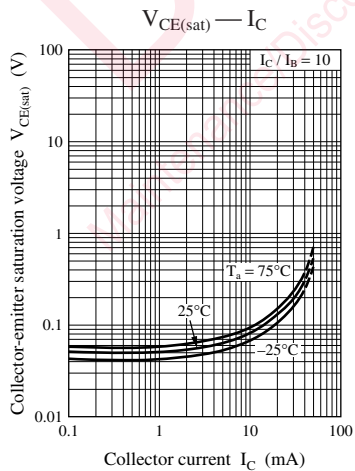
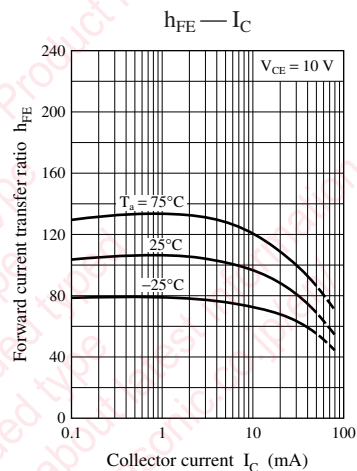
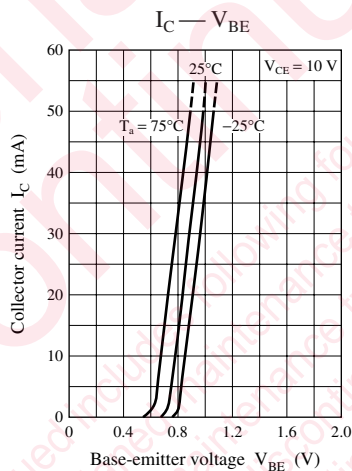
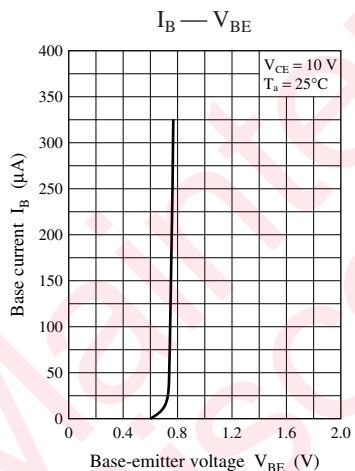
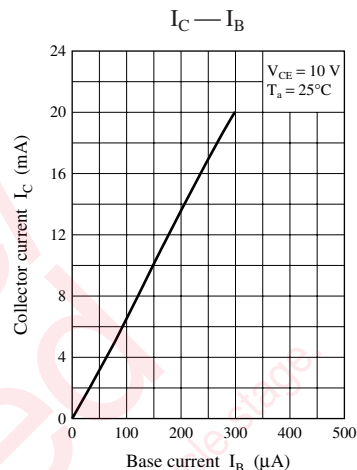
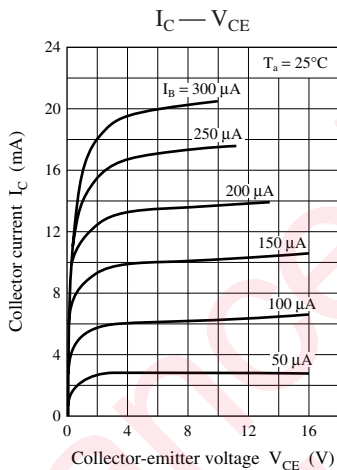
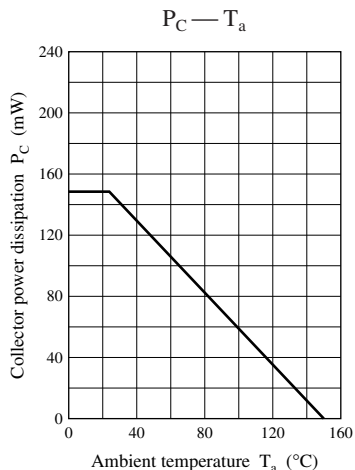
2. *: Rank classification

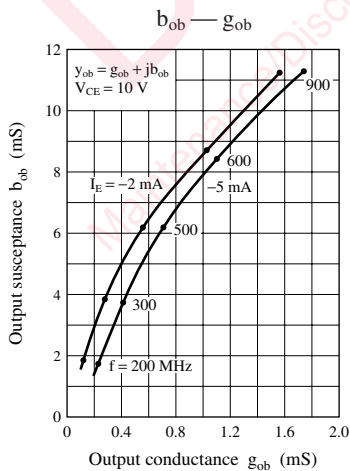
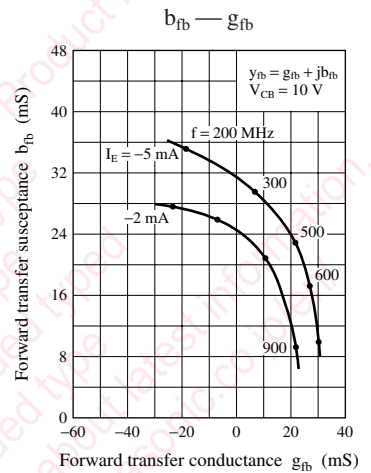
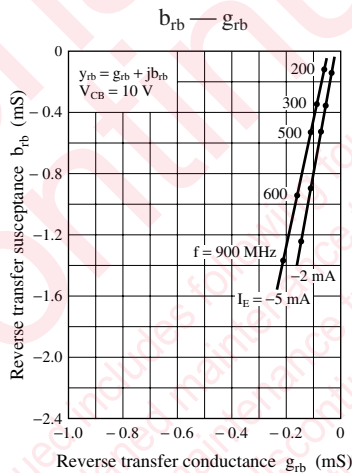
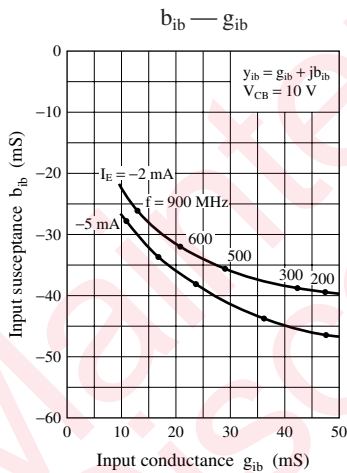
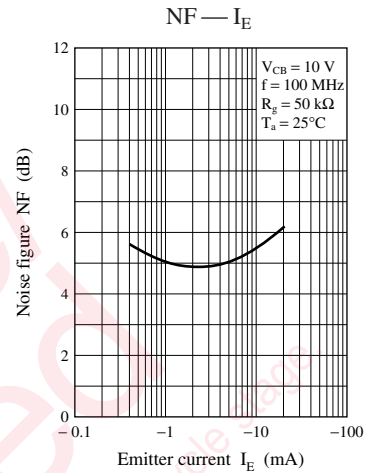
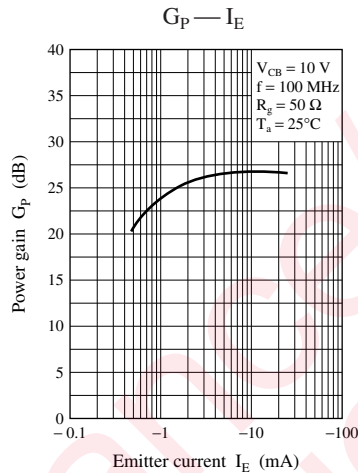
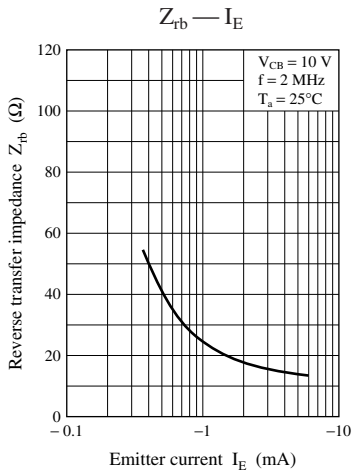
| Rank | T | S | No-rank |
|----------------|-------------|--------------|-------------|
| f_T | 800 to 1400 | 1000 to 1600 | 800 to 1600 |
| Marking symbol | RT | RS | R |

Product of no-rank is not classified and have no indication for rank.



Marking Symbol: R





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