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2SC1567, 2SC1567A

Silicon NPN epitaxial planar type

For low-frequency high power driver
Complementary to 2SA0794, 2SA0794A

■ Features

- High collector-emitter voltage (Base open) V_{CEO}
- Optimum for the driver stage of low-frequency and 40 W to 100 W output amplifier
- TO-126B package which requires no insulation plate for installation to the heat sink

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

| Parameter | Symbol | Rating | Unit |
|--|-----------|-------------|------------------|
| Collector-base voltage (Emitter open) | 2SC1567 | 100 | V |
| | 2SC1567A | 120 | |
| Collector-emitter voltage (Base open) | 2SC1567 | 100 | V |
| | 2SC1567A | 120 | |
| Emitter-base voltage (Collector open) | V_{EBO} | 5 | V |
| Collector current | I_C | 0.5 | A |
| Peak collector current | I_{CP} | 1 | A |
| Collector power dissipation | P_C | 1.2 | W |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

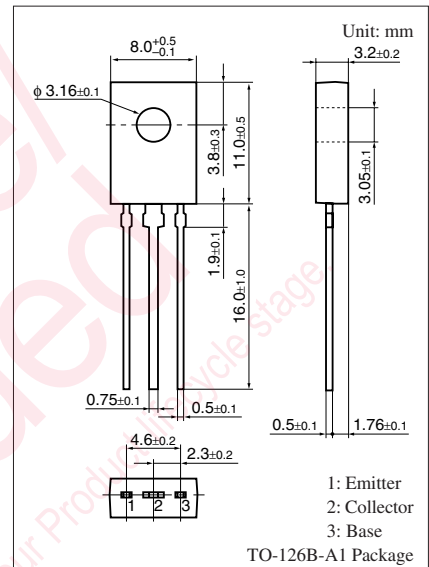
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

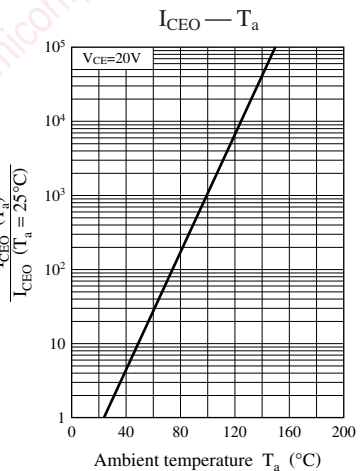
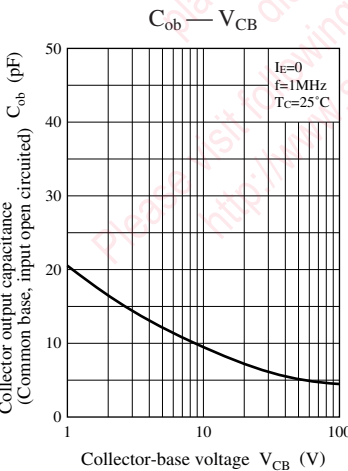
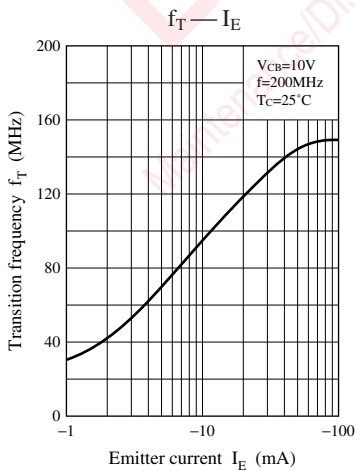
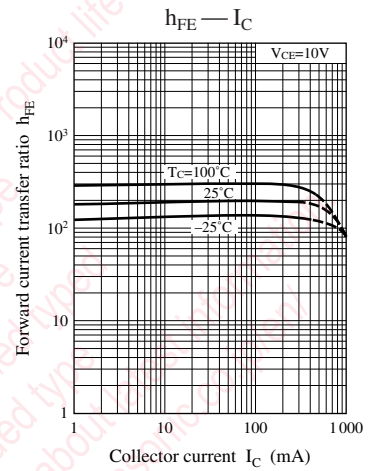
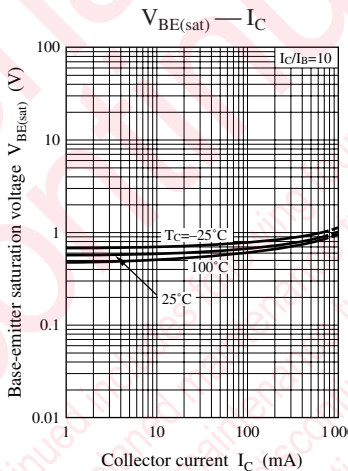
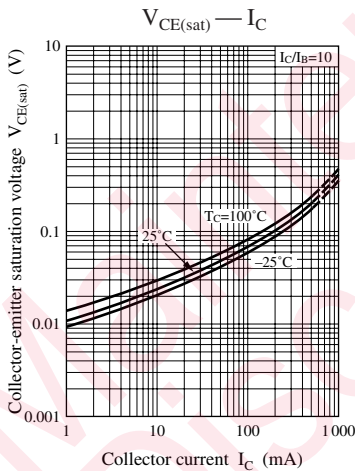
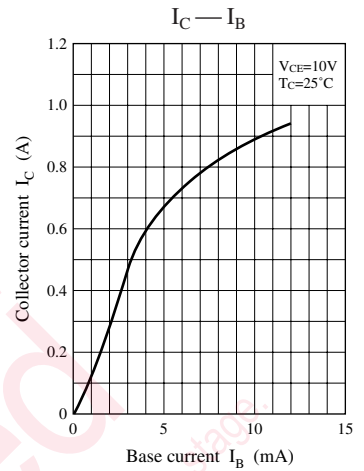
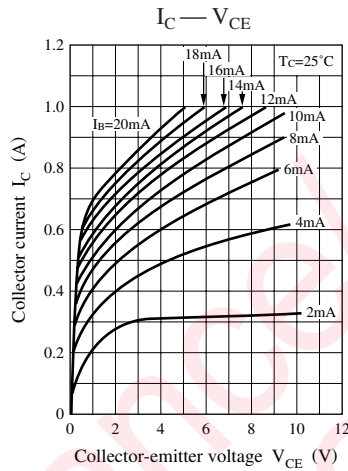
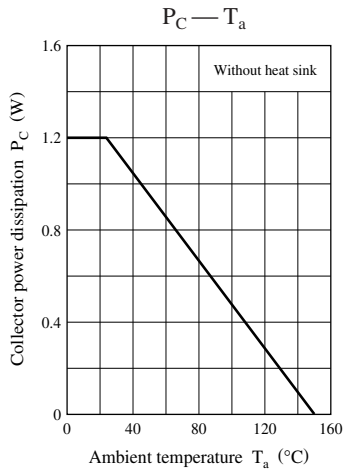
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---------------|--|-----|------|------|------|
| Collector-emitter voltage (Base open) | 2SC1567 | $I_C = 100 \mu\text{A}, I_B = 0$ | 100 | | | V |
| | 2SC1567A | | 120 | | | |
| Emitter-base voltage (Collector open) | V_{EBO} | $I_E = 1 \mu\text{A}, I_C = 0$ | 5 | | | V |
| Forward current transfer ratio | h_{FE1}^* | $V_{CE} = 10 \text{ V}, I_C = 150 \text{ mA}$ | 130 | | 330 | — |
| | h_{FE2} | $V_{CE} = 5 \text{ V}, I_C = 500 \text{ mA}$ | 50 | 100 | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$ | | 0.2 | 0.4 | V |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | $I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$ | | 0.85 | 1.20 | V |
| Transition frequency | f_T | $V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$ | | 120 | | MHz |
| Collector output capacitance (Common base, input open circuited) | C_{ob} | $V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ | | 11 | 20 | pF |

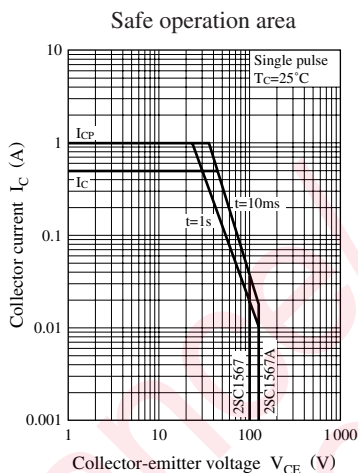
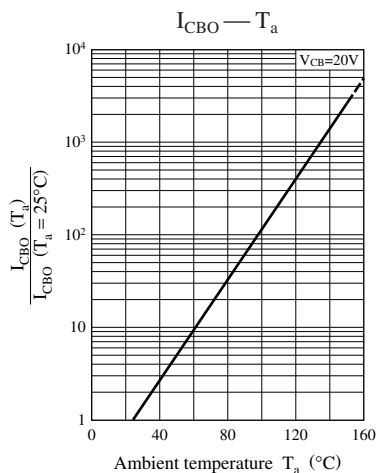
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

| Rank | R | S |
|-----------|------------|------------|
| h_{FE1} | 130 to 220 | 185 to 330 |







Maintenance/Discontinued

Maintenance/Discontinued includes following four Product lifecycle stage.

- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

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