2SB1435

Silicon PNP epitaxial planar type

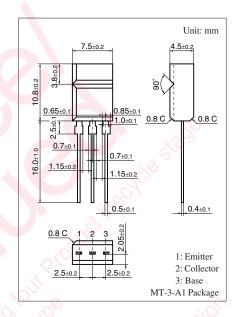
For low-frequency output amplification

■ Features

- Low collector-emitter saturation voltage V_{CE(sat)}
- Large collector current I_C
- Allowing automatic insertion with radial taping

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|---------------------------------------|------------------|-------------|------|--|
| Collector-base voltage (Emitter open) | V_{CBO} | -50 | V | |
| Collector-emitter voltage (Base open) | V_{CEO} | -50 | V | |
| Emitter-base voltage (Collector open) | V _{EBO} | -5 | V | |
| Collector current | I_{C} | -2 | A | |
| Peak collector current | I_{CP} | -3 | A | |
| Collector power dissipation | P _C | 1.5 | W | |
| Junction temperature | Tj | 150 | °C | |
| Storage temperature | T_{stg} | -55 to +150 | °C | |



■ Electrical Characteristics $T_a = 25$ °C ± 3°C

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|---|----------------------|--|-----|--------|-------|------|
| Collector-base voltage (Emiter open) | V _{CBO} | $I_C = -10 \mu\text{A}, I_E = 0$ | -50 | 250 | | V |
| Collector-emitter voltage (Base open) | V_{CEO} | $I_C = -1 \text{ mA}, I_B = 0$ | -50 | | | V |
| Emiter-base voltage (Collector open) | V_{EBO} | $I_E = -10 \mu A, I_C = 0$ | -5 | | | V |
| Collector-base cutoff current (Emitter open) | I_{CBO} | $V_{CB} = -20 \text{ V}, I_{E} = 0$ | | | - 0.1 | μΑ |
| Forward current transfer ratio | h _{FE1} * | $V_{CE} = -2 \text{ V}, I_{C} = -200 \text{ mA}$ | 120 | | 340 | _ |
| | h _{FE2} | $V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$ | 60 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_C = -1 \text{ A}, I_B = -50 \text{ mA}$ | | - 0.2 | - 0.3 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | $I_C = -1 \text{ A}, I_B = -50 \text{ mA}$ | | - 0.85 | -1.20 | V |
| Transition frequency | f_T | $V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$ | | 80 | | MHz |
| Collector output capacitance (Common base, input open circuited) | C _{ob} | $V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ | | 45 | 60 | pF |

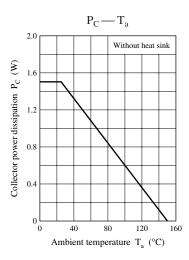
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

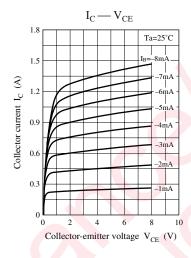
2. *: Rank classification

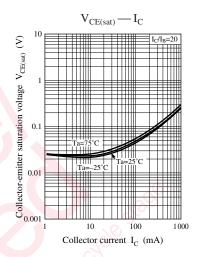
| Rank | R | S |
|---------------|------------|------------|
| $h_{\rm FE1}$ | 120 to 240 | 170 to 340 |

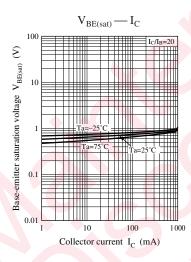
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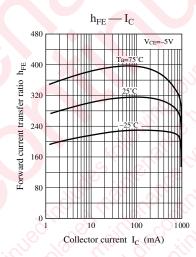
Panasonic

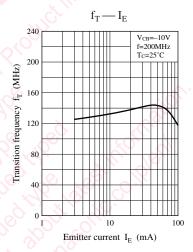


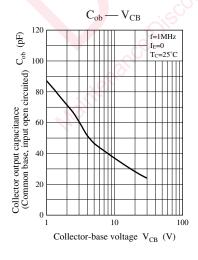


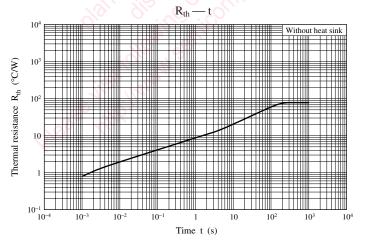












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