Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1832

Audio Frequency General Purpose Amplifier Applications

• High voltage and high current: $V_{CEO} = -50 \text{ V}$, $I_C = -150 \text{ mA}$ (max)

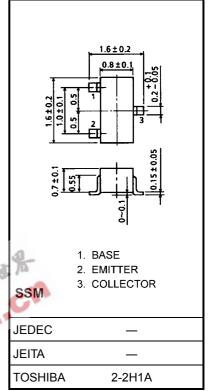
• Excellent hFE linearity: h_{FE} (I_C = -0.1 mA)/ h_{FE} (I_C = -2 mA)

= 0.95 (typ.)

- High h_{FE} : $h_{FE} = 70 \sim 400$
- Complementary to 2SC4738
- Small package

Maximum Ratings (Ta = 25°C)

| Characteristics | Symbol | Rating | Unit | |
|-----------------------------|------------------|---------|------|----|
| Collector-base voltage | V _{CBO} | -50 | V | |
| Collector-emitter voltage | V _{CEO} | -50 | V | |
| Emitter-base voltage | V _{EBO} | -5 | V | |
| Collector current | Ι _C | -150 | mA | 6 |
| Base current | Ι _Β | -30 | mA | - |
| Collector power dissipation | P _C | 100 | mW | 27 |
| Junction temperature | Tj | 125 | °C | |
| Storage temperature range | Tstg | -55~125 | °C | |



Weight: 2.4 mg (typ.)

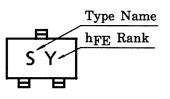
Electrical Characteristics (Ta = 25°C)

| Characteristics | | Symbol | Test Condition | Min | Тур. | Max | Unit |
|----------------------------------|--------|---------------------------|--|-----|------|------|------|
| Collector cut-off current | | I _{CBO} | $V_{CB} = -50 \text{ V}, \text{ I}_{E} = 0$ | _ | | -0.1 | μA |
| Emitter cut-off current | | I _{EBO} | $V_{EB}=-5~V,~I_C=0$ | | — | -0.1 | μA |
| DC current gain | | h _{FE} (Note) | $V_{CE} = -6 \text{ V}, \text{ I}_{C} = -2 \text{ mA}$ | 70 | _ | 400 | |
| Collector-emitter saturation vo | oltage | V _{CE (sat)} | $I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$ | | -0.1 | -0.3 | V |
| Transition frequency | | f _T | $V_{CE} = -10 V, I_{C} = -1 mA$ | 80 | _ | _ | MHz |
| Collector output capacitance Cot | | C _{ob} | $V_{CB} = -10 V, I_E = 0, f = 1 MHz$ | _ | 4 | 7 | pF |

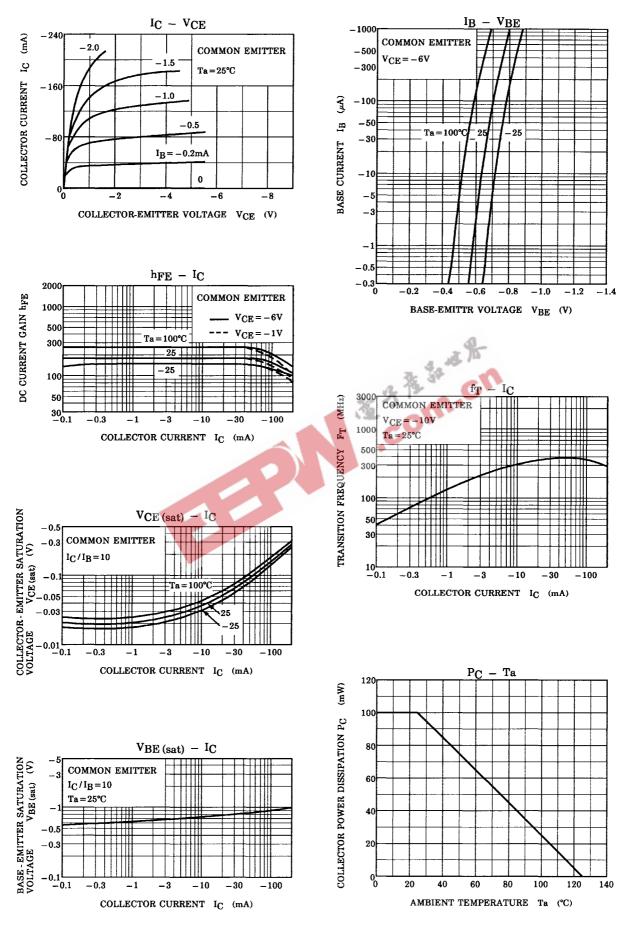
Note: hFE classification O (O): 70~140, Y (Y): 120~240, GR (G): 200~400

() marking symbol

Marking



TOSHIBA



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