

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE

2SA1932

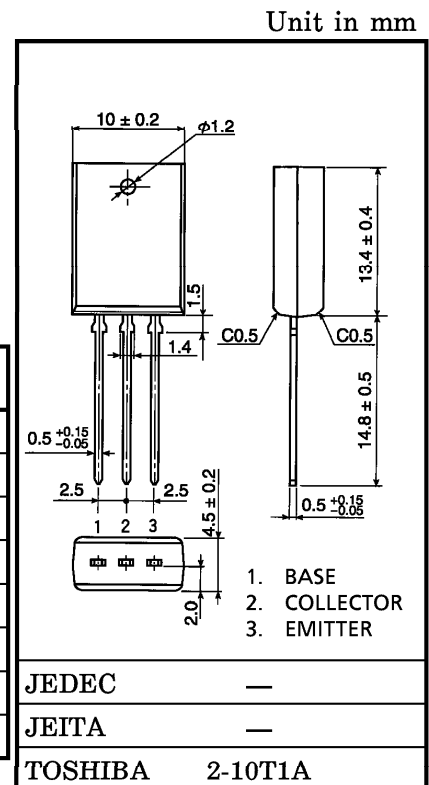
POWER AMPLIFIER APPLICATIONS

DRIVER STAGE AMPLIFIER APPLICATIONS

- High Transition Frequency : $f_T = 70\text{MHz}$ (Typ.)
- Complementary to 2SC5174

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

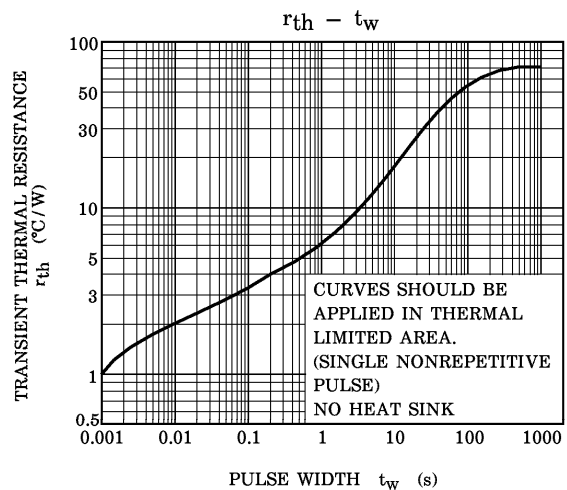
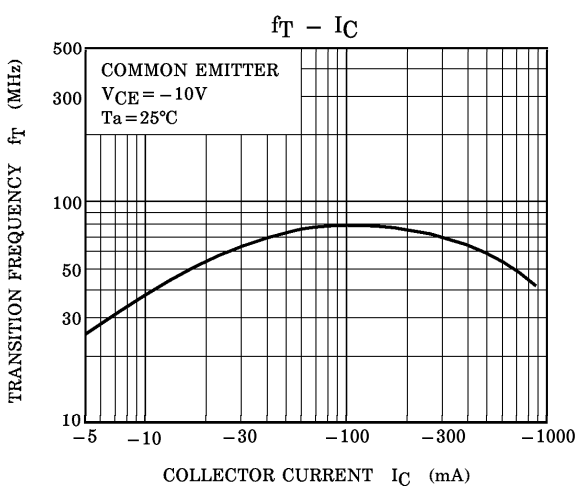
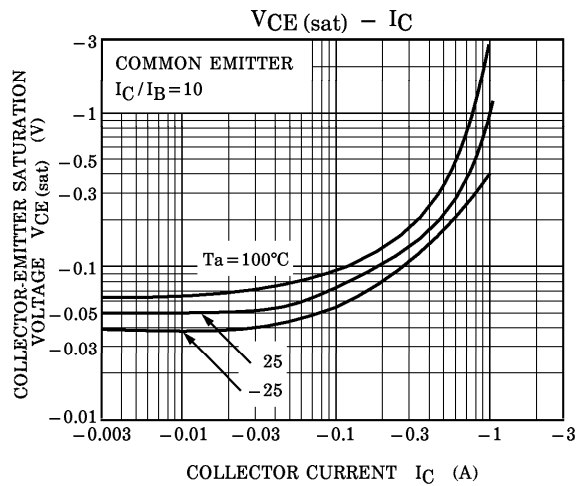
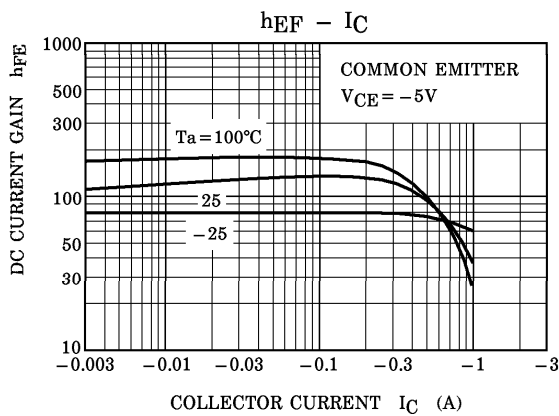
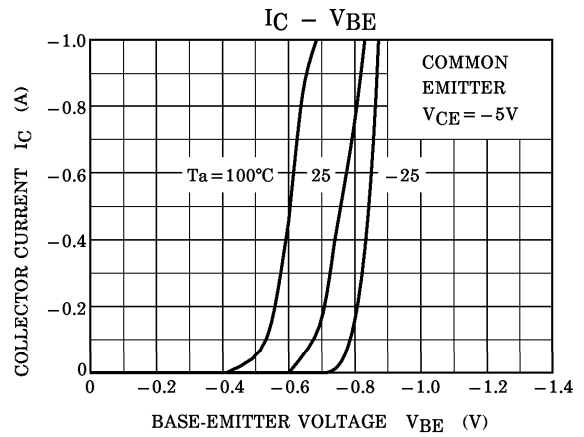
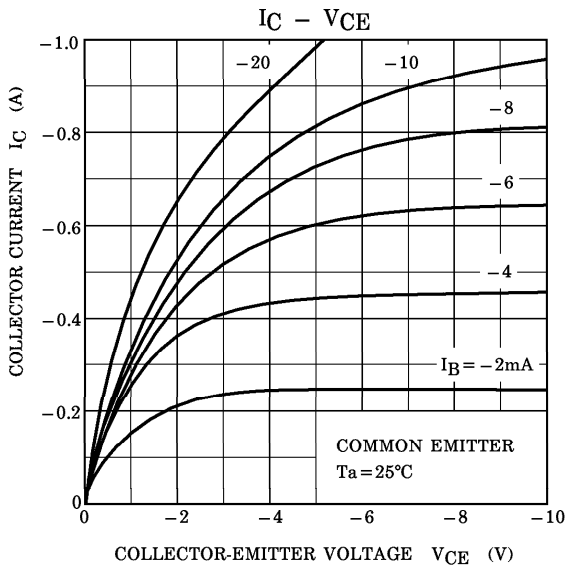
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------------------|
| Collector-Base Voltage | V_{CB0} | -230 | V |
| Collector-Emitter Voltage | V_{CEO} | -230 | V |
| Emitter-Base Voltage | V_{EB0} | -5 | V |
| Collector Current | I_C | -1 | A |
| Base Current | I_B | -0.1 | A |
| Collector Power Dissipation | P_C | 1.8 | W |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

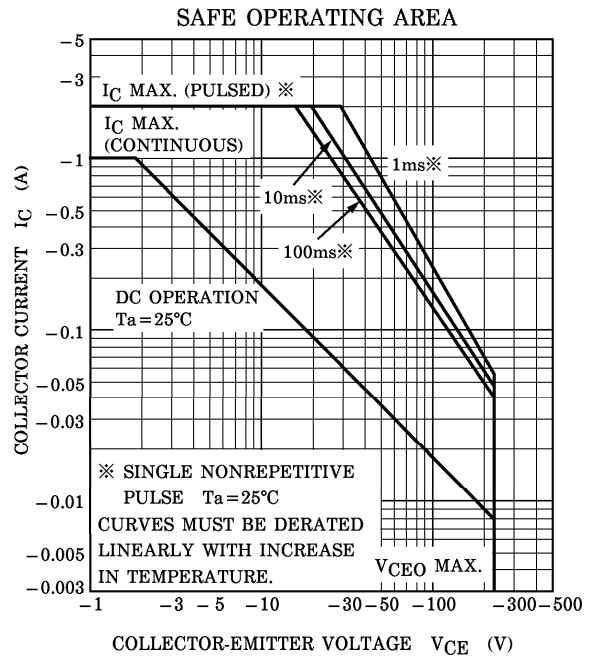
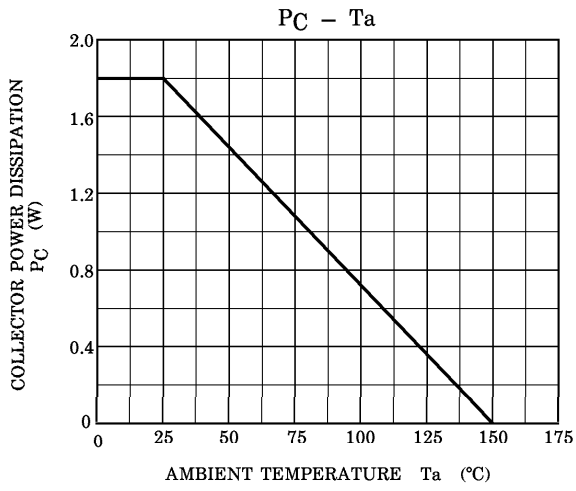


Weight : 1.5g (Typ.)

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|--|------|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -230\text{V}, I_E = 0$ | — | — | -1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5\text{V}, I_C = 0$ | — | — | -1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -10\text{mA}, I_B = 0$ | -230 | — | — | V |
| DC Current Gain | h_{FE} | $V_{CE} = -5\text{V}, I_C = -100\text{mA}$ | 100 | — | 320 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500\text{mA}, I_B = -50\text{mA}$ | — | — | -1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -5\text{V}, I_C = -500\text{mA}$ | — | — | -1.0 | V |
| Transition Frequency | f_T | $V_{CE} = -10\text{V}, I_C = -100\text{mA}$ | — | 70 | — | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | — | 30 | — | pF |





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