

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

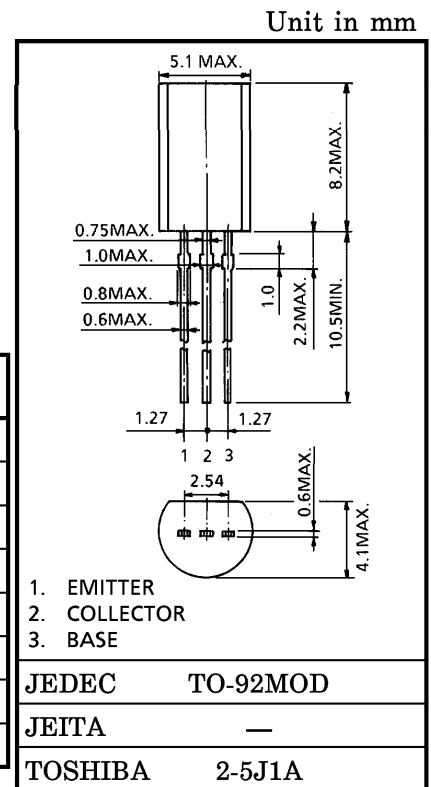
2SA949

DRIVER STAGE AUDIO AMPLIFIER APPLICATIONS
HIGH VOLTAGE SWITCHING APPLICATIONS

- High Breakdown Voltage : $V_{CE0} = -150V$
- Low Output Capacitance : $C_{ob} = 5.0pF$ (Max.)
- High Transition Frequency : $f_T = 120MHz$ (Typ.)

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------------|
| Collector-Base Voltage | V_{CBO} | -150 | V |
| Collector-Emitter Voltage | V_{CEO} | -150 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -50 | mA |
| Base Current | I_B | 5 | mA |
| Collector Power Dissipation | P_C | 800 | mW |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ C$ |

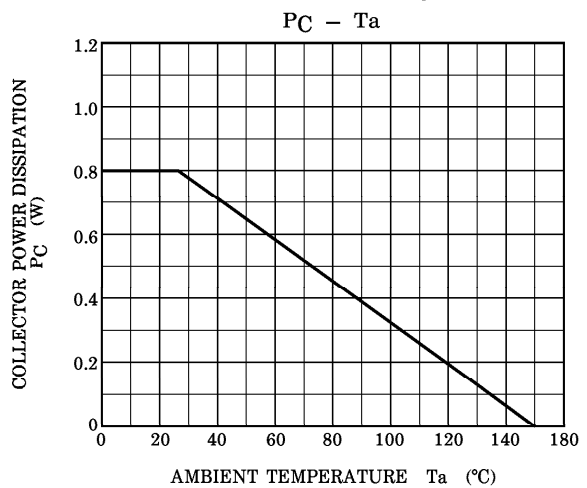
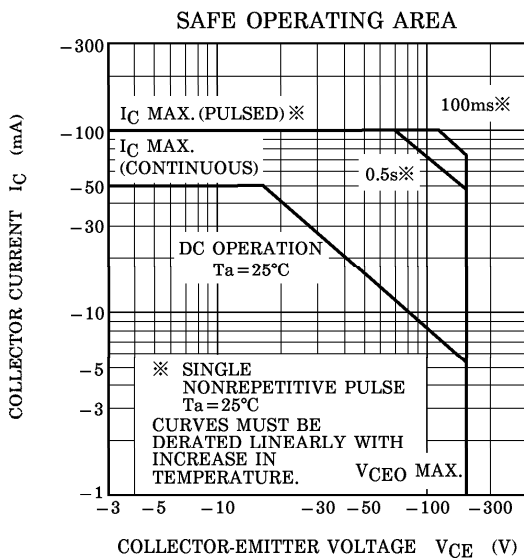
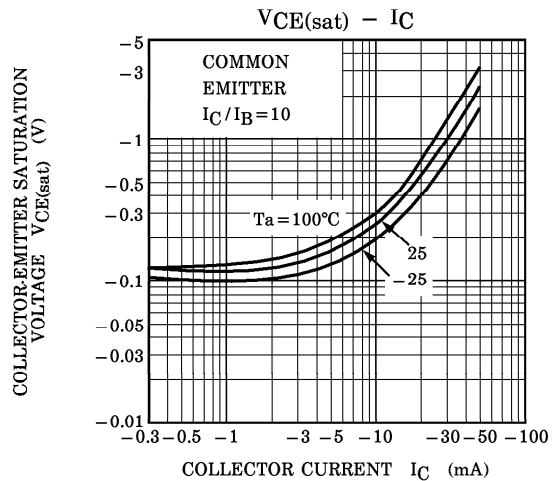
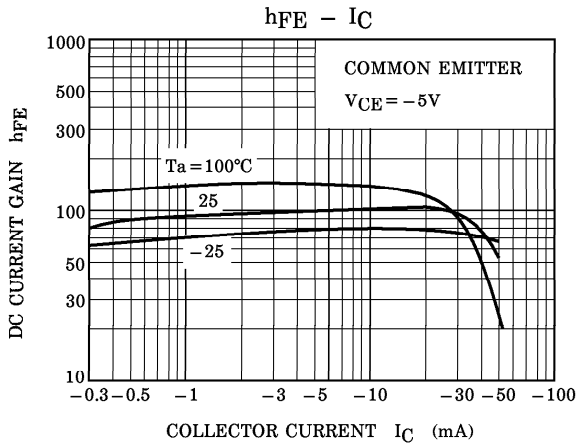
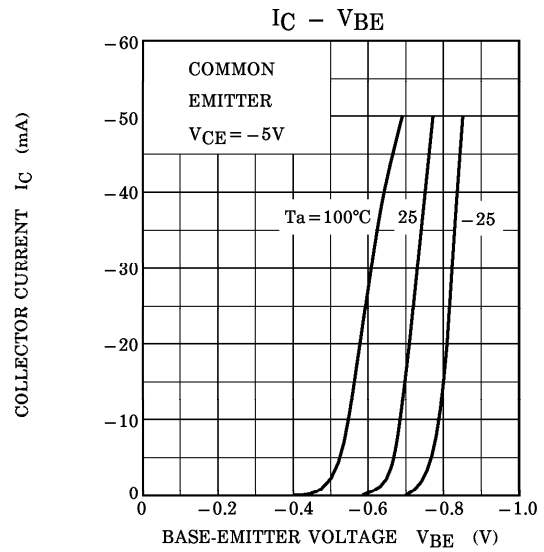
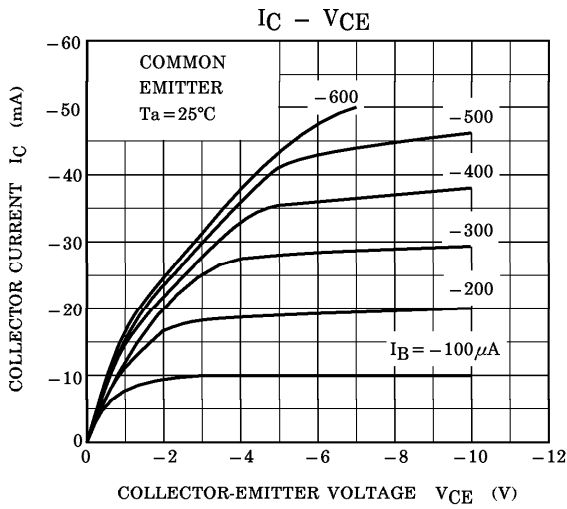


Weight : 0.36g (Typ.)

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|------------------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -150V, I_E = 0$ | — | — | -0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5V, I_C = 0$ | — | — | -0.1 | μA |
| DC Current Gain | h_{FE} (Note) | $V_{CE} = -5V, I_C = -10mA$ | 70 | — | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -10mA, I_B = -1mA$ | — | — | -0.8 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -5V, I_C = -30mA$ | — | — | -0.9 | V |
| Transition Frequency | f_T | $V_{CE} = -30V, I_C = -10mA$ | — | 120 | — | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | — | 4.0 | 5.0 | pF |

(Note) : h_{FE} Classification O : 70~140, Y : 120~240



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