

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC1627A

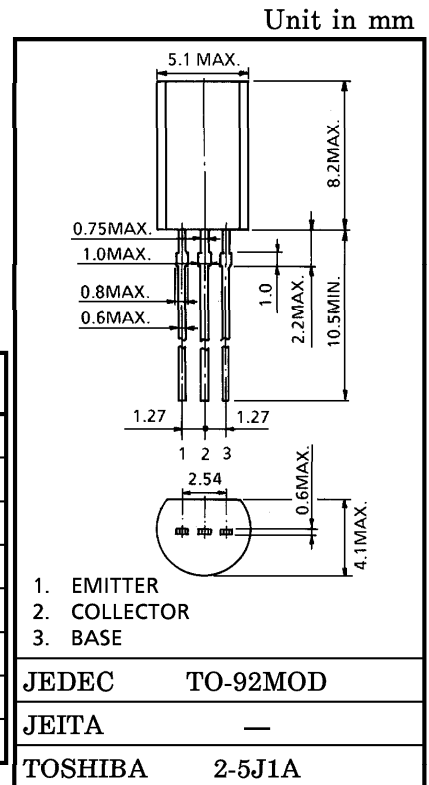
DRIVER STAGE AMPLIFIER APPLICATIONS

VOLTAGE AMPLIFIER APPLICATIONS

- Complementary to 2SA817A.
- Driver Stage Application of 30 to 35 Watts Amplifiers.

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|---------|------|
| Collector-Base Voltage | V _{CB0} | 80 | V |
| Collector-Emitter Voltage | V _{CEO} | 80 | V |
| Emitter-Base Voltage | V _{EBO} | 5 | V |
| Collector Current | I _C | 400 | mA |
| Base Current | I _B | 40 | mA |
| Collector Power Dissipation | P _C | 800 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -55~150 | °C |

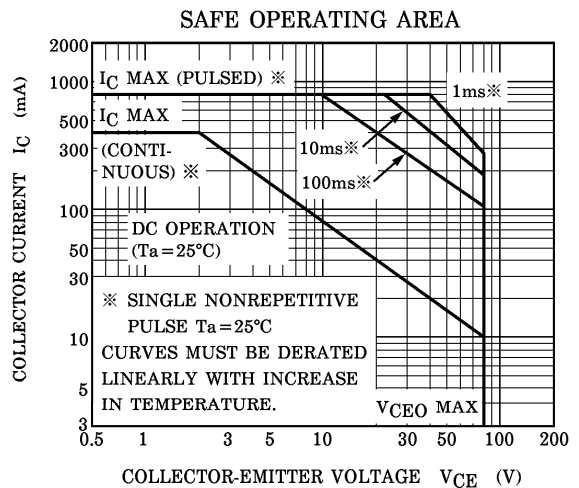
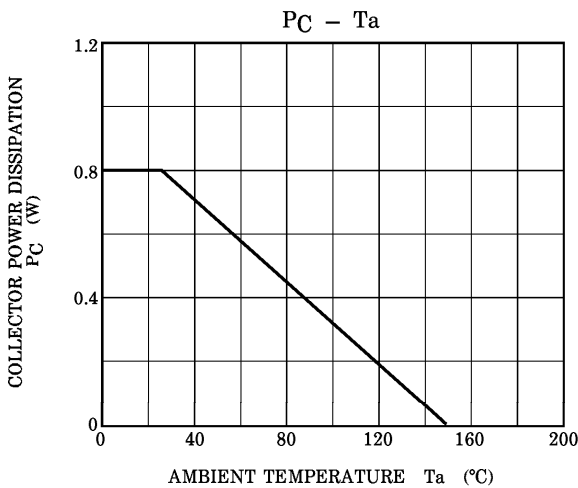
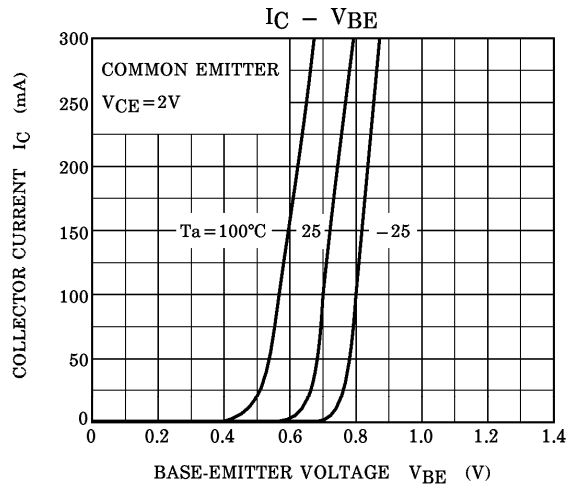
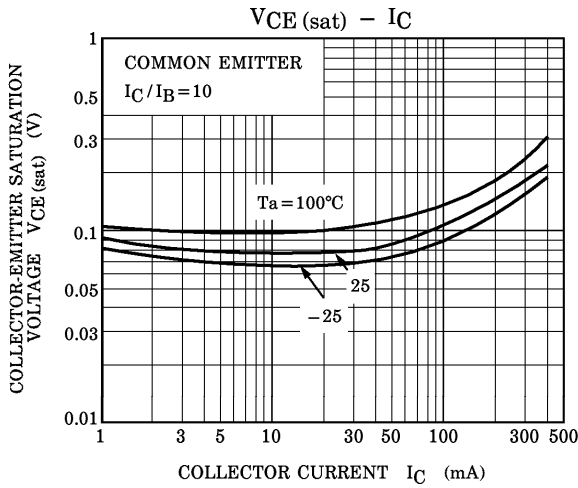
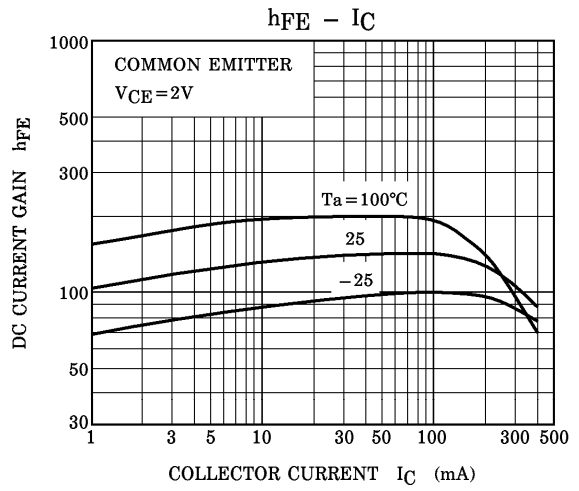
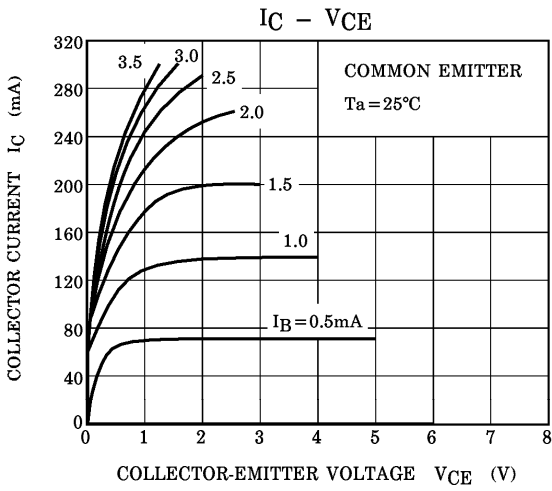


Weight : 0.36g (Typ.)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------------------------------|---|------|------|------|------|
| Collector Cut-off Current | I _{CBO} | V _{CB} = 50V, I _E = 0 | — | — | 100 | nA |
| Emitter Cut-off Current | I _{EBO} | V _{EB} = 5V, I _C = 0 | — | — | 100 | nA |
| Collector-Emitter Breakdown Voltage | V _{(BR) CEO} | I _C = 5mA, I _B = 0 | 80 | — | — | V |
| DC Current Gain | h _{FE} (1) (Note) | V _{CE} = 2V, I _C = 50mA | 70 | — | 240 | |
| | h _{FE} (2) | V _{CE} = 2V, I _C = 200mA | 40 | — | — | |
| Collector-Emitter Saturation Voltage | V _{CE (sat)} | I _C = 200mA, I _B = 20mA | — | — | 0.4 | V |
| Base-Emitter Voltage | V _{BE} | V _{CE} = 2V, I _C = 5mA | 0.55 | — | 0.8 | V |
| Transition Frequency | f _T | V _{CE} = 10V, I _C = 10mA | — | 100 | — | MHz |
| Collector Output Capacitance | C _{ob} | V _{CB} = 10V, f = 1MHz | — | 10 | — | pF |

(Note) : h_{FE} (1) Classification O : 70~140, Y : 120~240



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