

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE

2SA1811

LOW FREQUENCY AMPLIFIER APPLICATIONS.

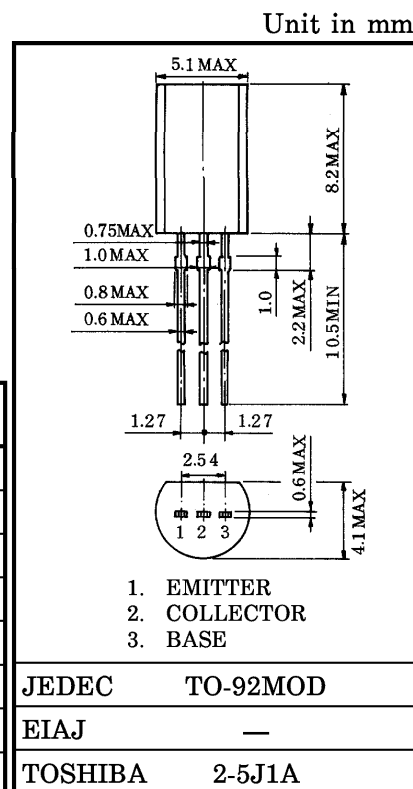
DRIVER STAGE AMPLIFIER APPLICATIONS.

SWITCHING APPLICATIONS.

- Excellent h_{FE} Linearity
: $h_{FE(2)} = 35$ (Min.), ($V_{CE} = -2V$, $I_C = -300mA$)
- Complementary to 2SC4707

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

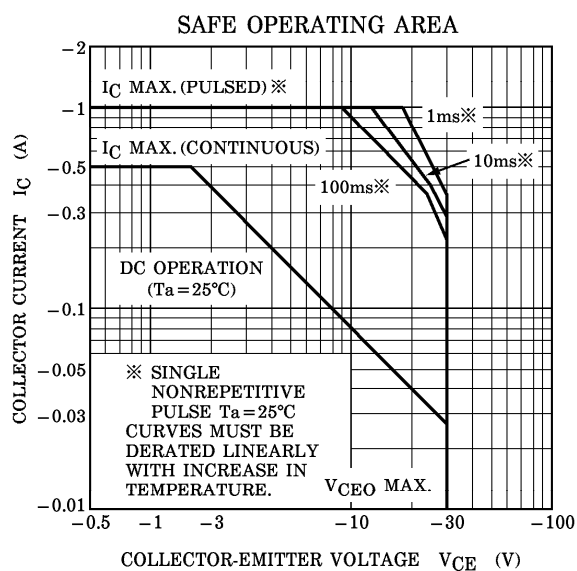
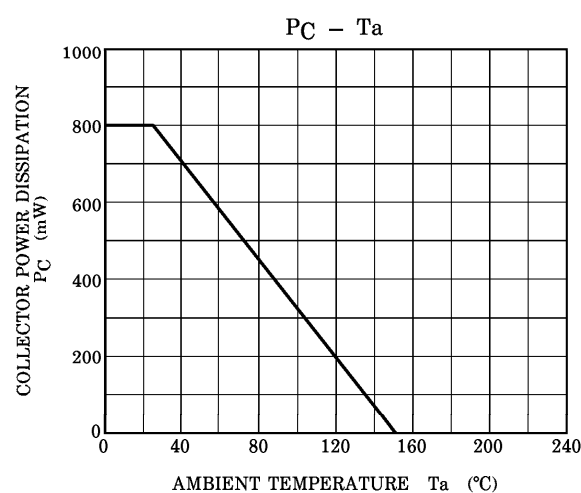
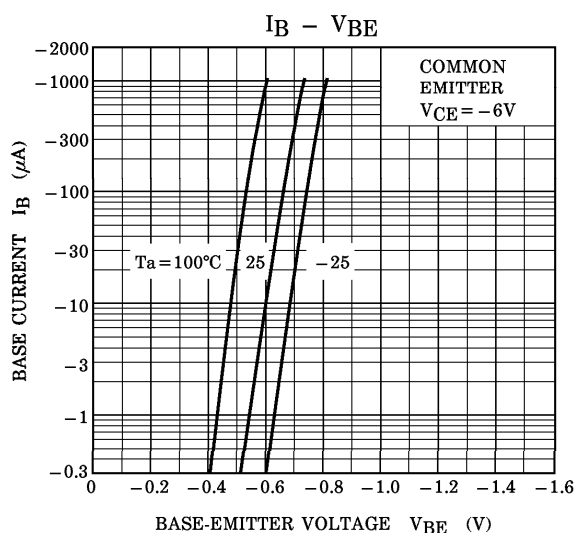
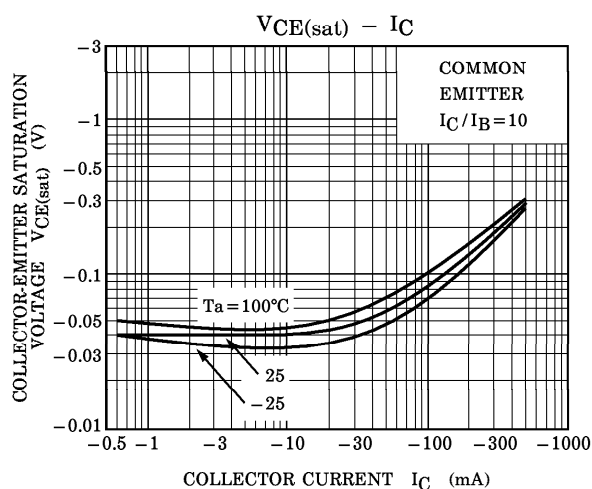
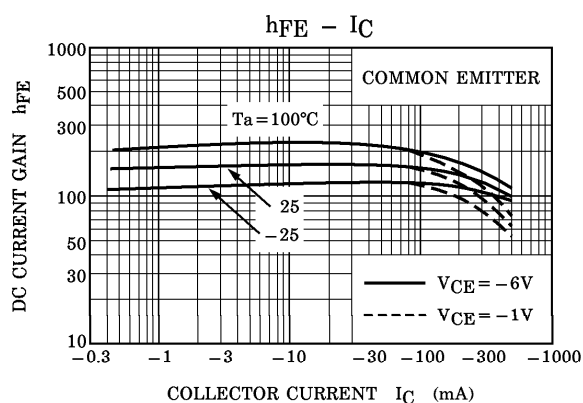
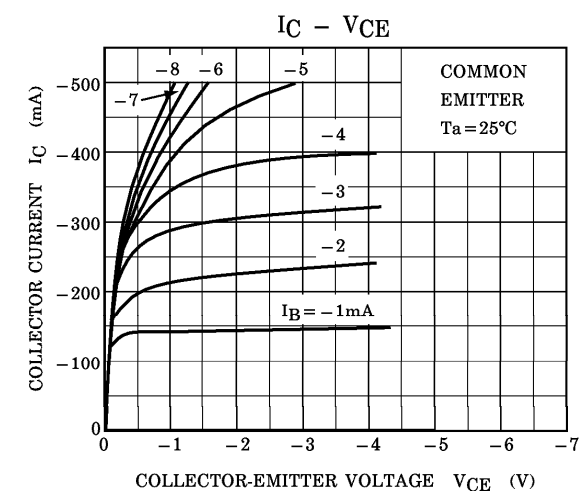
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------------|
| Collector-Base Voltage | V_{CBO} | -35 | V |
| Collector-Emitter Voltage | V_{CEO} | -30 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -500 | mA |
| Base Current | I_B | -100 | 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

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|---|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -35V$, $I_E = 0$ | — | — | -0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5V$, $I_C = 0$ | — | — | -0.1 | μA |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE} = -2V$, $I_C = -100mA$ | 100 | — | 300 | |
| | $h_{FE(2)}$ | $V_{CE} = -2V$, $I_C = -300mA$ | 35 | — | — | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -300mA$, $I_B = -30mA$ | — | -0.2 | -0.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -2V$, $I_C = -100mA$ | — | -0.8 | -1.0 | V |
| Transition Frequency | f_T | $V_{CE} = -6V$, $I_C = -20mA$ | — | 200 | — | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -6V$, $I_E = 0$, $f = 1MHz$ | — | 9 | — | pF |



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