

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07219 D T-29-23

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA496

2SA505

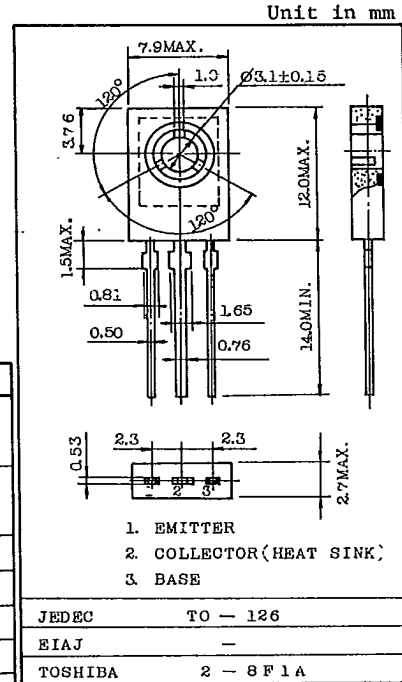
MEDIUM POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.32V$ (Typ.)
- Complementary to 2SC495 and 2SC496.

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------------|
| Collector-Base Voltage | 2SA505 | -60 | V |
| | 2SA496 | -40 | |
| Collector-Emitter Voltage | 2SA505 | -50 | V |
| | 2SA496 | -30 | |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -1 | A |
| Emitter Current | I_E | 1 | A |
| Collector Power Dissipation | P_C | 1 | W |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ C$ |



Mounting Kit No. AC46C
Weight : 0.72g

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------------|------------------------------------|------|-------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -30V, I_E = 0$ | - | - | -1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5V, I_C = 0$ | - | - | -1 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -10mA, I_B = 0$ | -50 | - | - | V |
| | | | -30 | - | - | |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E = 1mA, I_C = 0$ | -5 | - | - | V |
| DC Current Gain | (Note) $h_{FE(1)}$ | $V_{CE} = -2V, I_C = -50mA$ | 40 | - | 240 | |
| | $h_{FE(2)}$ | $V_{CE} = -2V, I_C = -800mA$ | 13 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | - | -0.32 | -0.8 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -2V, I_C = -500mA$ | - | - | -1.3 | V |
| Transition Frequency | f_T | $V_{CE} = -10V, I_C = -10mA$ | 50 | 100 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | - | 20 | - | pF |

Note: $h_{FE(1)}$ Classification R : 40 ~ 80 O : 70 ~ 140 Y : 120 ~ 240

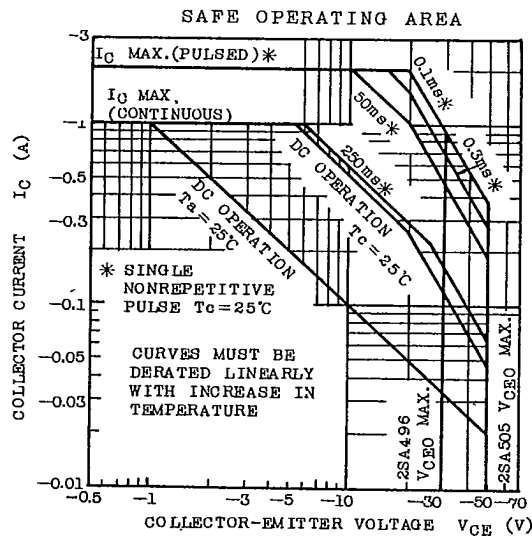
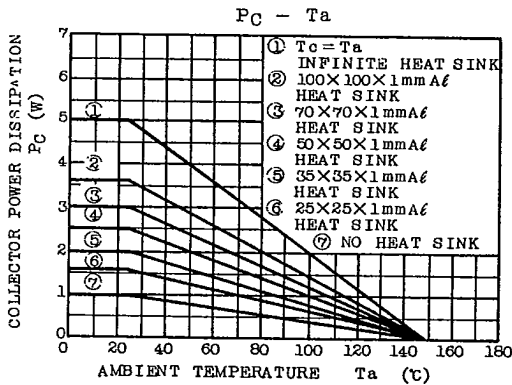
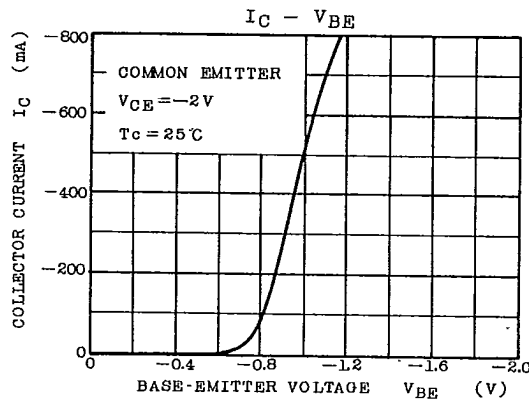
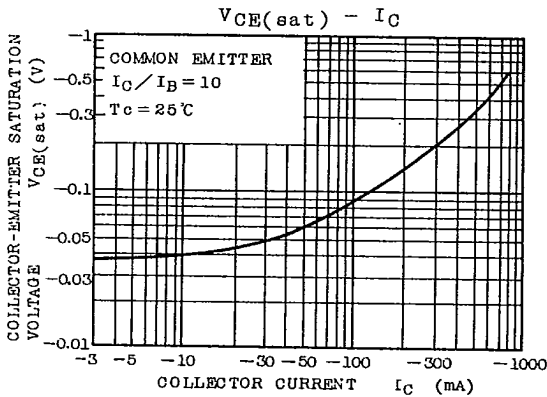
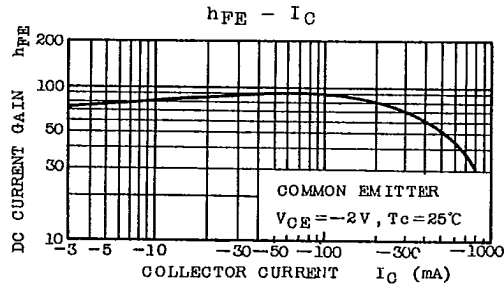
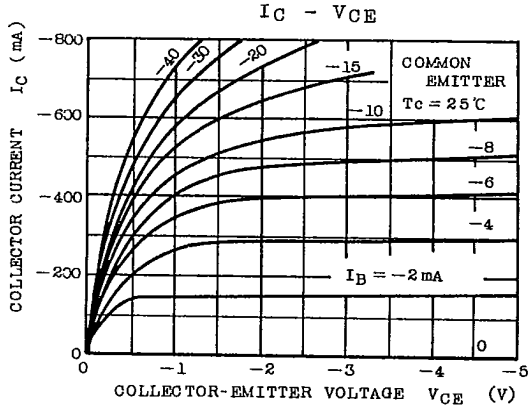
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