

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07289 0 Y-33-23

SILICON PNP TRIPLE DIFFUSED TYPE

**2SA1265**

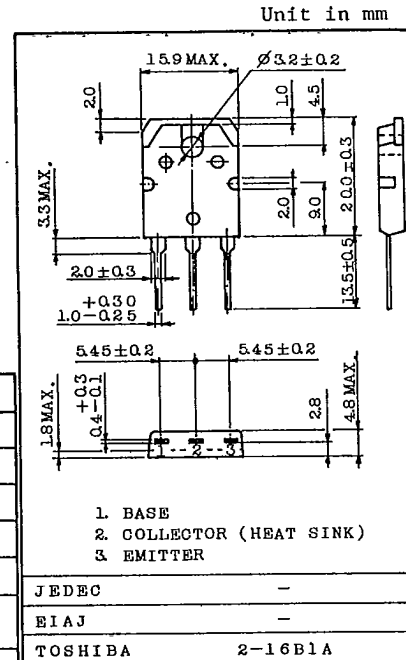
POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- Complementary to 2SC3182
- Recommend for 70W High Fidelity Audio Frequency Amplifier Output Stage

## MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC                                     | SYMBOL           | RATING    | UNIT |
|--|------------------|-----------|------|
| Collector-Base Voltage                             | V <sub>CB0</sub> | -140      | V    |
| Collector-Emitter Voltage                          | V <sub>CE0</sub> | -140      | V    |
| Emitter-Base Voltage                               | V <sub>EB0</sub> | -5        | V    |
| Collector Current                                  | I <sub>C</sub>   | -10       | A    |
| Base Current                                       | I <sub>B</sub>   | -1        | A    |
| Collector Power Dissipation (T <sub>c</sub> =25°C) | P <sub>C</sub>   | 100       | W    |
| Junction Temperature                               | T <sub>j</sub>   | 150       | °C   |
| Storage Temperature Range                          | T <sub>stg</sub> | -55 ~ 150 | °C   |



Weight : 4.6g

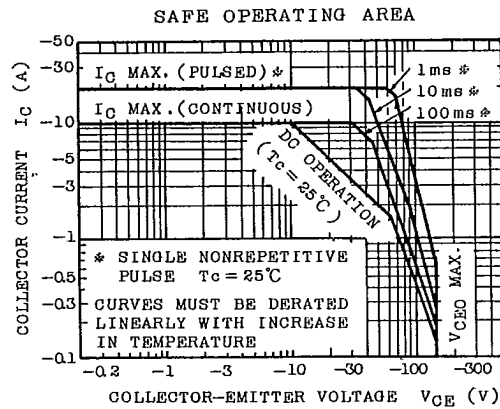
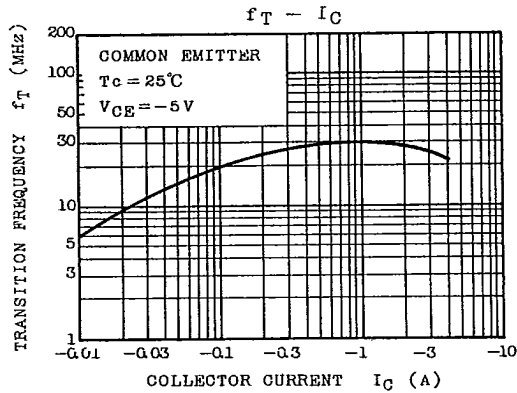
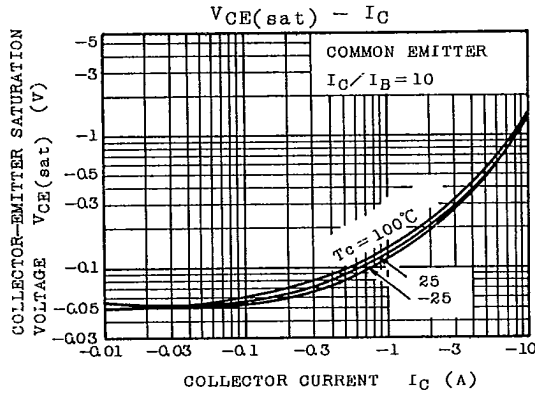
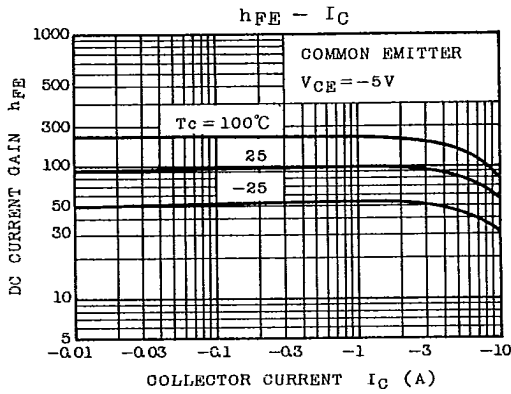
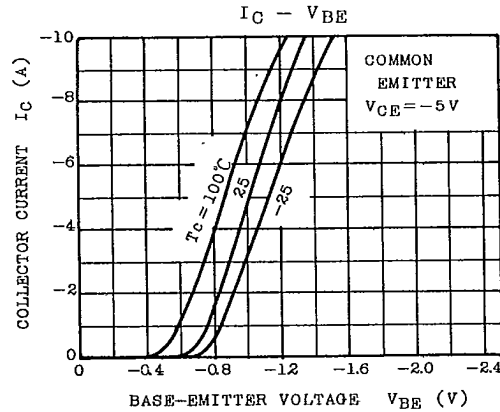
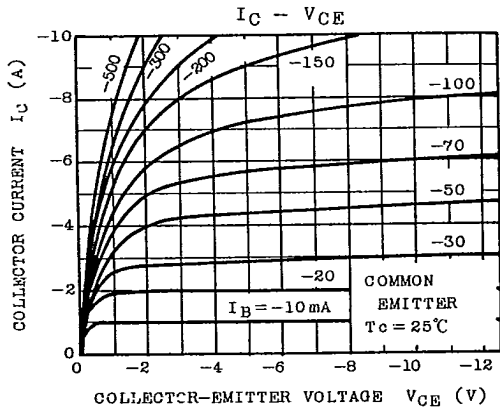
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                       | SYMBOL                        | TEST CONDITION                                   | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------------------------------|--|------|------|------|------|
| Collector Cut-off Current            | I <sub>CBO</sub>              | V <sub>CB</sub> =-140V, I <sub>E</sub> =0        | -    | -    | -5.0 | μA   |
| Emitter Cut-off Current              | I <sub>EBO</sub>              | V <sub>EB</sub> =-5V, I <sub>C</sub> =0          | -    | -    | -5.0 | μA   |
| Collector-Emitter Breakdown Voltage  | V(BR) <sub>CEO</sub>          | I <sub>C</sub> =-50mA, I <sub>B</sub> =0         | -140 | -    | -    | V    |
| DC Current Gain                      | h <sub>FE</sub> (1)<br>(Note) | V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A        | 55   | -    | 160  |      |
|                                      |                               | V <sub>CE</sub> =-5V, I <sub>C</sub> =-5A        | 35   | 83   | -    |      |
| Collector-Emitter Saturation Voltage | V <sub>CE(sat)</sub>          | I <sub>C</sub> =-7A, I <sub>B</sub> =-0.7A       | -    | -0.8 | -2.0 | V    |
| Base-Emitter Voltage                 | V <sub>BE</sub>               | V <sub>CE</sub> =-5V, I <sub>C</sub> =-5A        | -    | -1.0 | -1.5 | V    |
| Transition Frequency                 | f <sub>T</sub>                | V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A        | -    | 30   | -    | MHz  |
| Collector Output Capacitance         | C <sub>ob</sub>               | V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz | -    | 480  | -    | pF   |

Note : h<sub>FE</sub>(1) Classification R : 55 ~ 110, O : 80 ~ 160

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