

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07646 DT-33-11

SILICON NPN TRIPLE DIFFUSED TYPE

2SC3180

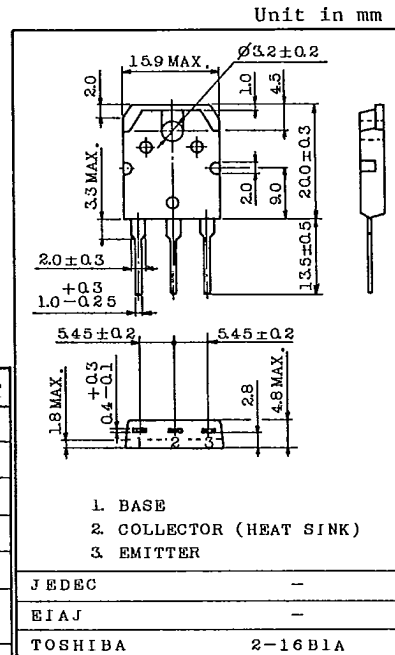
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Complementary to 2SA1263
- Recommend for 40W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------------------|------------------|-----------|------|
| Collector-Base Voltage | V _{CB0} | 80 | V |
| Collector-Emitter Voltage | V _{CE0} | 80 | V |
| Emitter-Base Voltage | V _{EB0} | 5 | V |
| Collector Current | I _C | 6 | A |
| Base Current | I _B | 0.6 | A |
| Collector Power Dissipation (Tc=25°C) | P _C | 60 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -55 ~ 150 | °C |



Weight : 4.6g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------------------------------|---|------|------|------|------|
| Collector Cut-off Current | I _{CBO} | V _{CB} =80V, I _E =0 | - | - | 5.0 | μA |
| Emitter Cut-off Current | I _{EBO} | V _{EB} =5V, I _C =0 | - | - | 5.0 | μA |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | I _C =50mA, I _B =0 | 80 | - | - | V |
| DC Current Gain | h _{FE} (1) (Note) | V _{CE} =5V, I _C =1A | 55 | - | 160 | |
| | h _{FE} (2) | V _{CE} =5V, I _C =3A | 35 | 75 | - | |
| Collector Emitter Saturation Voltage | V _{CE(sat)} | I _C =5A, I _B =0.5A | - | 0.45 | 2.0 | V |
| Base-Emitter Voltage | V _{BE} | V _{CE} =5V, I _C =3A | - | 0.92 | 1.5 | V |
| Transition Frequency | f _T | V _{CE} =5V, I _C =1A | - | 30 | - | MHz |
| Collector Output Capacitance | C _{ob} | V _{CB} =10V, I _E =0, f=1MHz | - | 105 | - | pF |

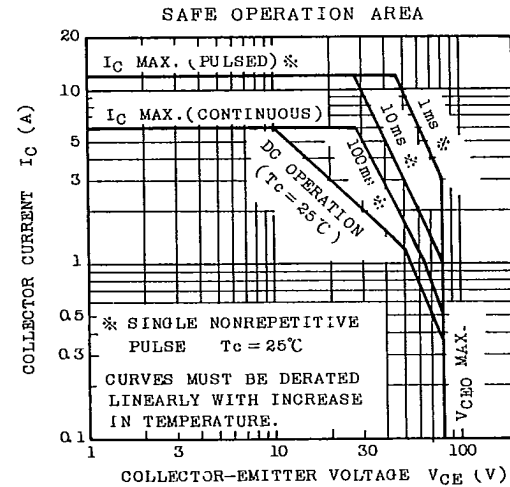
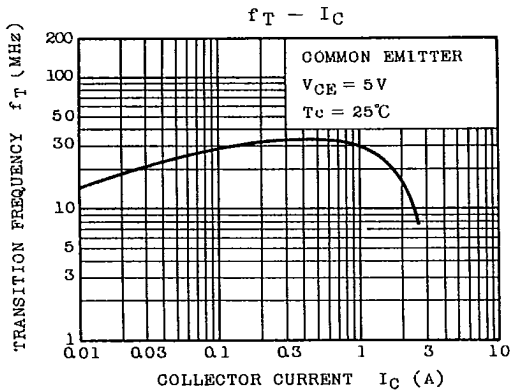
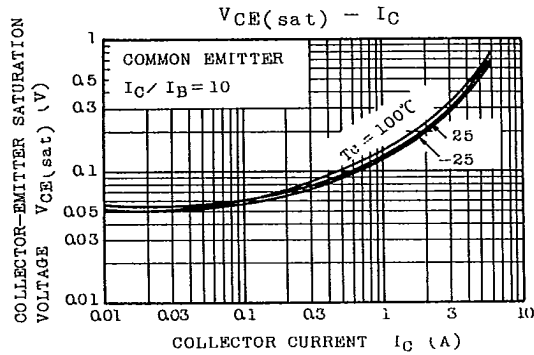
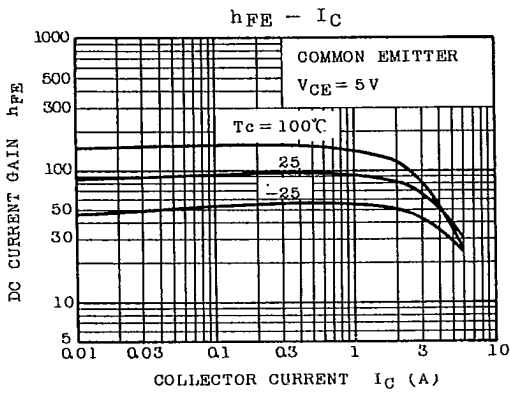
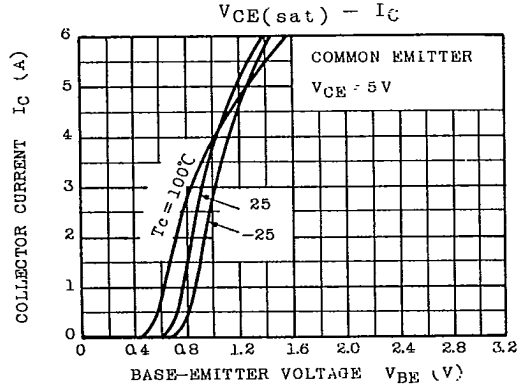
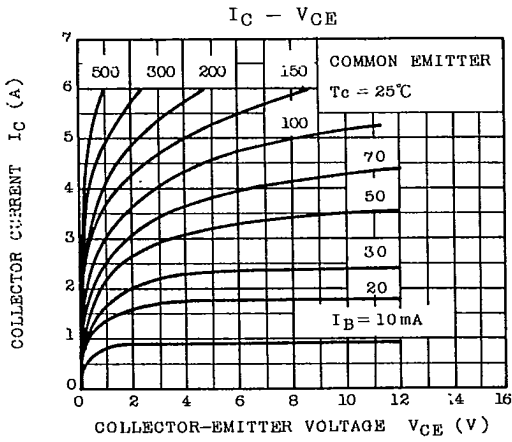
Note : h_{FE}(1) Classification, R : 55 ~ 110 O : 80 ~ 160

TOSHIBA CORPORATION

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