

SILICON NPN TRIPLE DIFFUSED TYPE

2SC3182

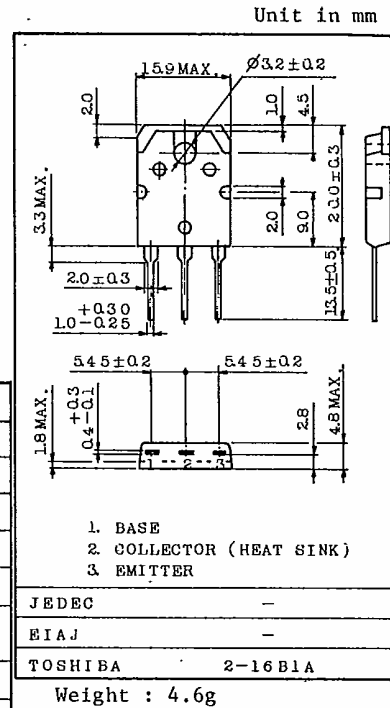
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Complementary to 2SA1265
- Recommend for 70W High Fidelity Audio Frequency Amplifier Output Stage

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------------------|------------------|-----------|------|
| Collector-Base Voltage | V _{CB0} | 140 | V |
| Collector-Emitter Voltage | V _{CE0} | 140 | V |
| Emitter-Base Voltage | V _{EB0} | 5 | V |
| Collector Current | I _C | 10 | A |
| Base Current | I _B | 1 | A |
| Collector Power Dissipation (Tc=25°C) | P _C | 100 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -55 ~ 150 | °C |



ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------------------------------|---|------|------|------|------|
| Collector Cut-off Current | I _{CB0} | V _{CB} =140V, I _E =0 | - | - | 5.0 | μA |
| Emitter Cut-off Current | I _{EB0} | V _{EB} =5V, I _C =0 | - | - | 5.0 | μA |
| Collector-Emitter Breakdown Voltage | V(BR)CE0 | I _C =50mA, I _B =0 | 140 | - | - | V |
| DC Current Gain | h _{FE} (1) (Note) | V _{CE} =5V, I _C =1A | 55 | - | 160 | |
| | h _{FE} (2) | V _{CE} =5V, I _C =5A | 35 | 83 | - | |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | I _C =7A, I _B =0.7A | - | 0.3 | 2.0 | V |
| Base-Emitter Voltage | V _{BE} | V _{CE} =5V, I _C =5A | - | 0.9 | 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 | - | 220 | - | pF |

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

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