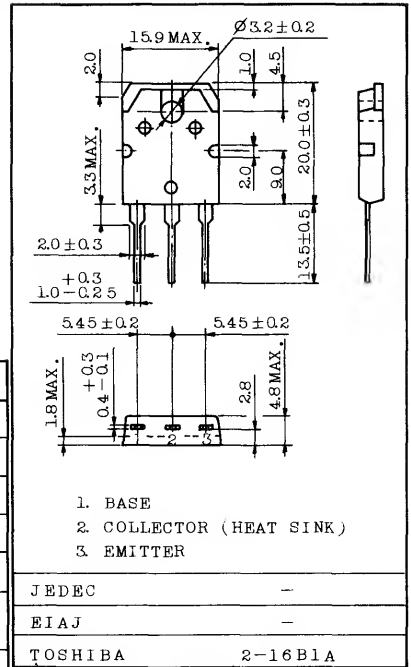


POWER AMPLIFIER APPLICATIONS.

FEATURES:

- . Complementary to 2SC3181
- . Recommend for 55W High Fidelity Audio Frequency Amplifier Output Stage.

Unit in mm



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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|--------------------|
| Collector-Base Voltage | V_{CB0} | -120 | V |
| Collector-Emitter Voltage | V_{CEO} | -120 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -8 | A |
| Base Current | I_B | -0.8 | A |
| Collector Power Dissipation ($T_c=25^{\circ}\text{C}$) | P_C | 80 | W |
| Junction Temperature | T_j | 150 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^{\circ}\text{C}$ |

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------------|--|------|-------|------|---------------|
| Collector Cut-off Current | I_{CB0} | $V_{CB}=-120\text{V}, I_E=0$ | - | - | -5.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5\text{V}, I_C=0$ | - | - | -5.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-50\text{mA}, I_B=0$ | -120 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}=-5\text{V}, I_C=-1\text{A}$ | 55 | - | 160 | |
| | | $V_{CE}=-5\text{V}, I_C=-4\text{A}$ | 35 | 75 | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-6\text{A}, I_B=-0.6\text{A}$ | - | -0.80 | -2.0 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-5\text{V}, I_C=-4\text{A}$ | - | -0.97 | -1.5 | V |
| Transition Frequency | f_T | $V_{CE}=-5\text{V}, I_C=-1\text{A}$ | - | 30 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$ | - | 420 | - | pF |

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

2SA1264

