

TOSHIBA TRANSISTOR
SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA968B

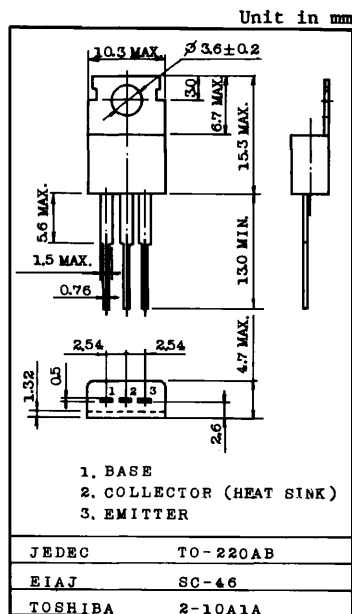
POWER AMPLIFIER APPLICATIONS.
 DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- . High Transition Frequency; $f_T=100\text{MHz}$ (Typ.)
- . Complementary to 2SC2238B

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

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|--|---------|-----------|---------|------------------|
| Collector-Base Voltage | 2SA968B | V_{CB0} | -200 | V |
| Collector-Emitter Voltage | 2SA968B | V_{CE0} | -200 | V |
| Emitter-Base Voltage | | V_{EB0} | -5 | V |
| Collector Current | | I_C | -1.5 | A |
| Emitter Current | | I_E | 1.5 | A |
| Collector Power Dissipation ($T_c=25^\circ\text{C}$) | | P_C | 25 | W |
| Junction Temperature | | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | | T_{stg} | -55~150 | $^\circ\text{C}$ |



Mounting Kit No. AC75
 Weight : 1.9g

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

| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------|--------------------|--|------|------|------|---------------|
| Collector Cut-off Current | | I_{CB0} | $V_{CB}=-160\text{V}, I_E=0$ | - | - | -1.0 | μA |
| Emitter Cut-off Current | | I_{EB0} | $V_{EB}=-5\text{V}, I_C=0$ | - | - | -1.0 | μA |
| Collector-Emitter Breakdown Voltage | 2SA968B | $V_{(BR)CE0}$ | $I_C=-10\text{mA}, I_B=0$ | -200 | - | - | V |
| Emitter-Base Breakdown Voltage | | $V_{(BR)EB0}$ | $I_E=-1\text{mA}, I_C=0$ | -5 | - | - | V |
| DC Current Gain | | h_{FE} (Note) | $V_{CE}=-5\text{V}, I_C=-100\text{mA}$ | 70 | - | 240 | |
| Collector-Emitter Saturation Voltage | | $V_{CE(sat)}$ | $I_C=-500\text{mA}, I_B=-50\text{mA}$ | - | - | -1.5 | V |
| Base-Emitter Voltage | | V_{BE} | $V_{CE}=-5\text{V}, I_C=-500\text{mA}$ | - | - | -1.0 | V |
| Transition Frequency | | f_T | $V_{CE}=-10\text{V}, I_C=-100\text{mA}$ | - | 100 | - | MHz |
| Collector Output Capacitance | | C_{ob} | $V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$ | - | 30 | - | pF |

Note: h_{FE} Classification 0: 70~140, Y: 120~240

