

TOSHIBA TRANSISTOR   SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC2882

POWER AMPLIFIER APPLICATIONS.

VOLTAGE AMPLIFIER APPLICATIONS.

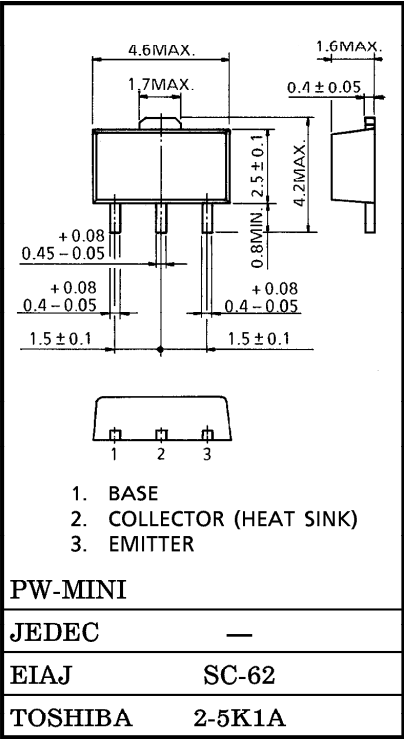
- Suitable for Driver of 30~35 Watts Audio Amplifier
- $P_C=1\sim2W$  (Mounted Ceramic Substrate)
- Small Flat Package
- Complementary to 2SA1202

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

| CHARACTERISTIC              | SYMBOL       | RATING       | UNIT        |
|-----------------------------|--------------|--------------|-------------|
| Collector-Base Voltage      | $V_{CBO}$    | 80           | V           |
| Collector-Emitter Voltage   | $V_{CEO}$    | 80           | V           |
| Emitter-Base Voltage        | $V_{EBO}$    | 5            | V           |
| Collector Current           | $I_C$        | 400          | mA          |
| Base Current                | $I_B$        | 80           | mA          |
| Collector Power Dissipation | $P_C$        | 500          | mW          |
| Collector Power Dissipation | $P_C$ (Note) | 1000         | mW          |
| Junction Temperature        | $T_j$        | 150          | $^{\circ}C$ |
| Storage Temperature Range   | $T_{stg}$    | $-55\sim150$ | $^{\circ}C$ |

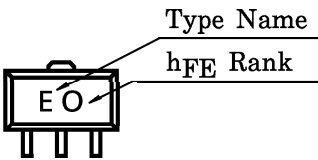
Note : Mounted on ceramic substrate ( $250mm^2\times0.8t$ )

Unit in mm



Weight : 0.05g

Marking



961001EAA2

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## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC                       | SYMBOL                 | TEST CONDITION                    | MIN. | TYP. | MAX. | UNIT    |
|--------------------------------------|------------------------|-----------------------------------|------|------|------|---------|
| Collector Cut-off Current            | $I_{CBO}$              | $V_{CB} = 80V, I_E = 0$           | —    | —    | 0.1  | $\mu A$ |
| Emitter Cut-off Current              | $I_{EBO}$              | $V_{EB} = 5V, I_C = 0$            | —    | —    | 0.1  | $\mu A$ |
| Collector-Emitter Breakdown Voltage  | $V_{(BR) CEO}$         | $I_C = 10mA, I_B = 0$             | 80   | —    | —    | V       |
| DC Current Gain                      | $h_{FE} (1)$<br>(Note) | $V_{CE} = 2V, I_C = 50mA$         | 70   | —    | 240  |         |
|                                      | $h_{FE} (2)$           | $V_{CE} = 2V, I_C = 200mA$        | 40   | —    | —    |         |
| Collector-Emitter Saturation Voltage | $V_{CE (sat)}$         | $I_C = 200mA, I_B = 20mA$         | —    | —    | 0.4  | V       |
| Base-Emitter Voltage                 | $V_{BE}$               | $V_{CE} = 2V, I_C = 5mA$          | —    | —    | 0.8  | V       |
| Transition Frequency                 | $f_T$                  | $V_{CE} = 10V, I_C = 10mA$        | 0.55 | 100  | —    | MHz     |
| Collector Output Capacitance         | $C_{ob}$               | $V_{CB} = 10V, I_E = 0, f = 1MHz$ | —    | 10   | —    | pF      |

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

