

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC2884

AUDIO FREQUENCY AMPLIFIER APPLICATIONS

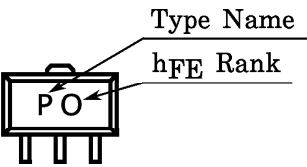
- High DC Current Gain : $h_{FE}=100\sim320$
- Suitable for Output Stage of 1 Watts Amplifier
- $P_C=1\sim2W$ (Mounted on Ceramic Substrate)
- Small Flat Package
- Complementary to 2SA1204

MAXIMUM RATINGS (Ta = 25°C)

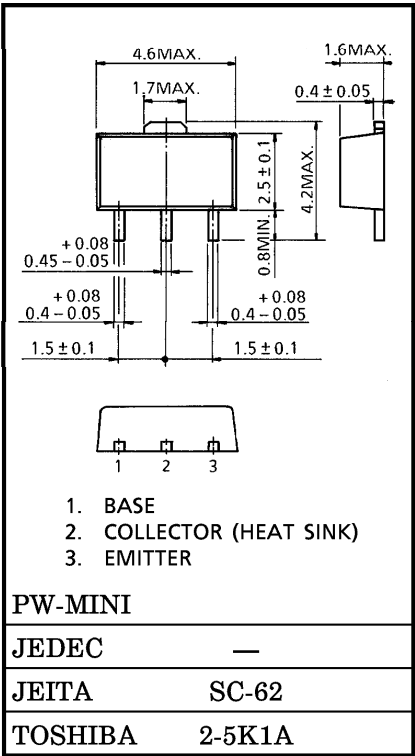
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------------------|---------|------|
| Collector-Base Voltage | V _{CBO} | 35 | V |
| Collector-Emitter Voltage | V _{CEO} | 30 | V |
| Emitter-Base Voltage | V _{EB0} | 5 | V |
| Collector Current | I _C | 800 | mA |
| Base Current | I _B | 160 | mA |
| Collector Power Dissipation | P _C | 500 | mW |
| Collector Power Dissipation | P _C (Note) | 1000 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -55~150 | °C |

(Note) : Mounted on ceramic substrate (250mm²×0.8t)

MARKING



Unit in mm

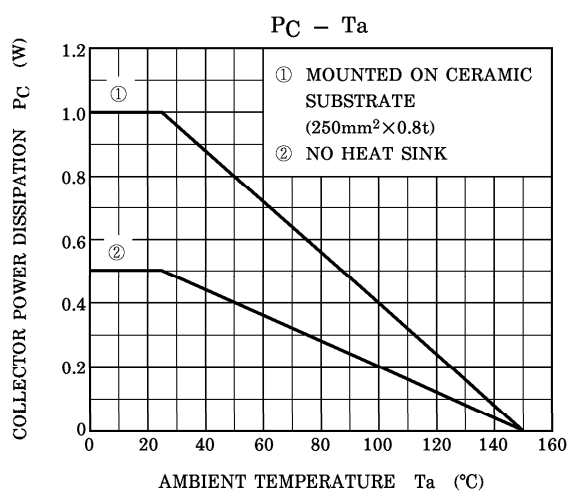
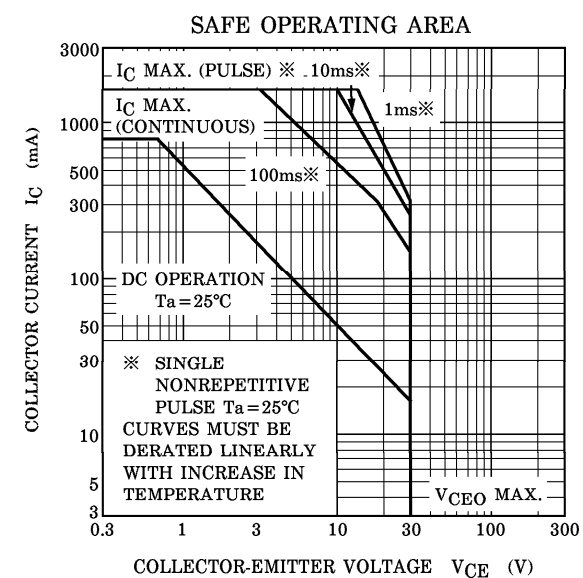
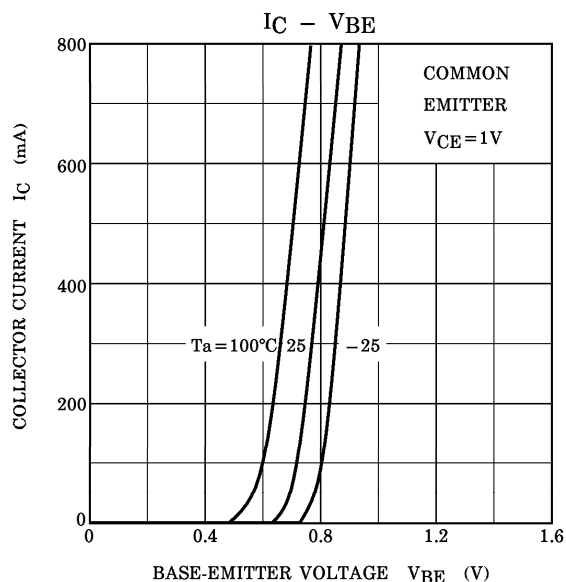
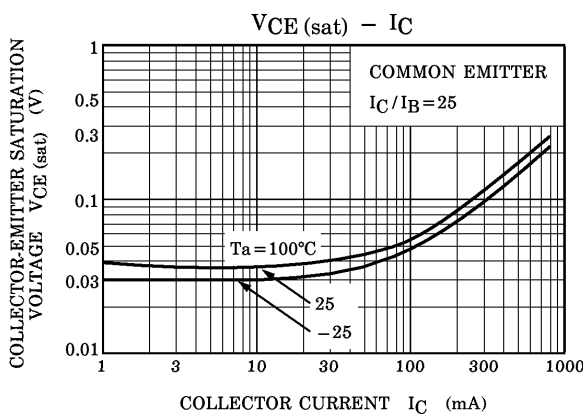
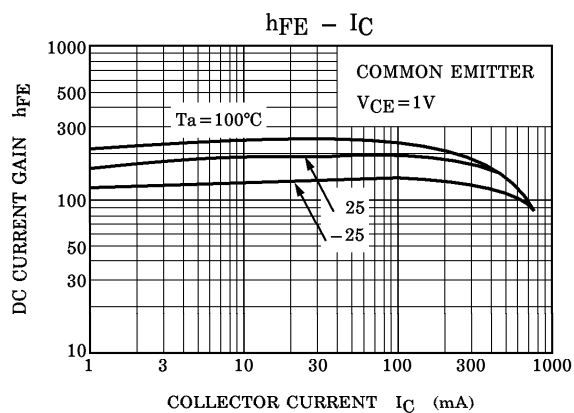
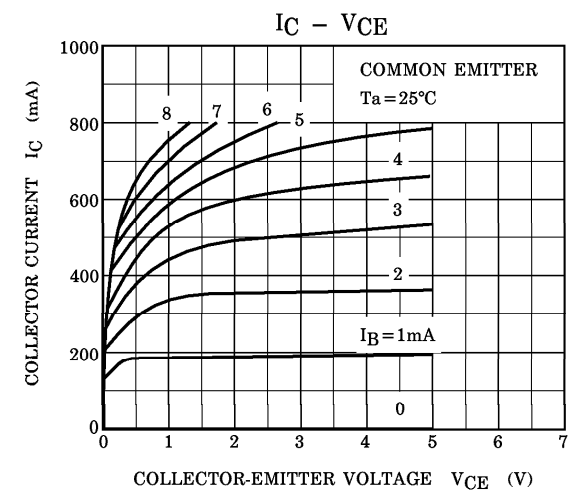


Weight : 0.05g (Typ.)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------------|-----------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=35V, I_E=0$ | — | — | 0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | — | — | 0.1 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR) CEO}$ | $I_C=10mA, I_B=0$ | 30 | — | — | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}=1V, I_C=100mA$ | 100 | — | 320 | |
| | $h_{FE(2)}$ | $V_{CE}=1V, I_C=700mA$ | 35 | — | — | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500mA, I_B=20mA$ | — | — | 0.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=1V, I_C=10mA$ | 0.5 | — | 0.8 | V |
| Transition Frequency | f_T | $V_{CE}=5V, I_C=10mA$ | — | 120 | — | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | — | 13 | — | pF |

(Note) : $h_{FE(1)}$ Classification O : 100~200, Y : 160~320



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