查询2SA1093供应商



SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

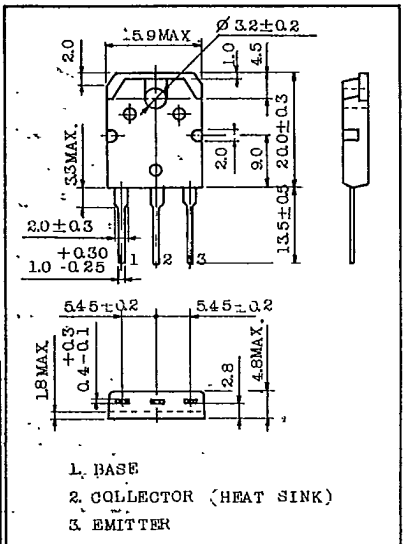
# 2SA1093

AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Complementary to 2SC2563.
- Recommended for 50W audio amplifier output stage.
- High transition frequency : $f_T$=90MHz(Typ.)

Unit in mm




1. BASE
2. COLLECTOR (HEAT SINK)
3. EMITTER

| | |
|---|---|
| JEDEC | — |
| EIAJ | — |
| TOSHIBA | 2-16B1A |

Weight : 4.6g

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Collector-Base Voltage | $V_{CBO}$ | -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 (Tc=25°C) | $P_C$ | 80 | 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 | $I_{CBO}$ | $V_{CB}$=-120V, $I_E$=0 | - | - | -50 | μA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$=-5V, $I_C$=0 | - | - | -50 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C$=-0.05A, $I_B$=0 | -120 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}$=-5V, $I_C$=-1A | 55 | - | 240 | |
| | $h_{FE(2)}$ | $V_{CE}$=-5V, $I_C$=-4A | 30 | - | - | |
| Collector Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=-4A, $I_B$=-0.4A | - | -1.0 | -2.0 | V |
| Base-Emitter Voltage | $V_{BE}$ | $V_{CE}$=-5V, $I_C$=-4A | - | -1.5 | -2.5 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=-10V, $I_C$=-1A | - | 90 | - | MHz |
| Collector Output Capacitance | $C_{ob}$ | $V_{CB}$=-10V, $I_E$=0, f=1MHz | - | 150 | - | pF |

Note: $h_{FE(1)}$ Classification. R:55~110, O:80~160, Y:120~240



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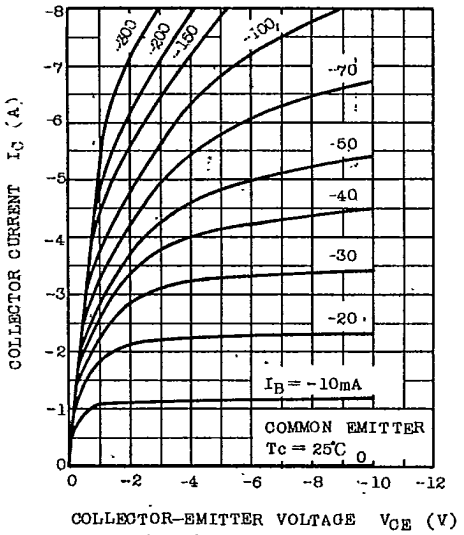
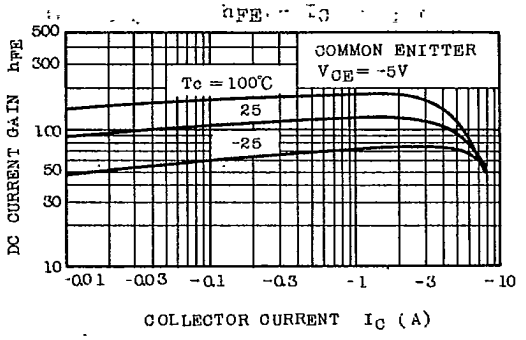
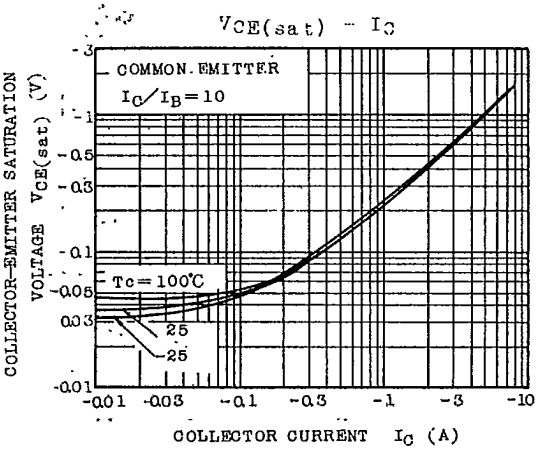
$I_C - V_{CE}$



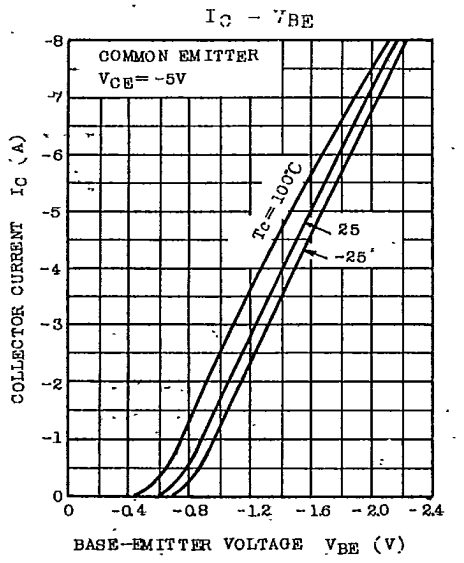

$h_{FE} - I_C$



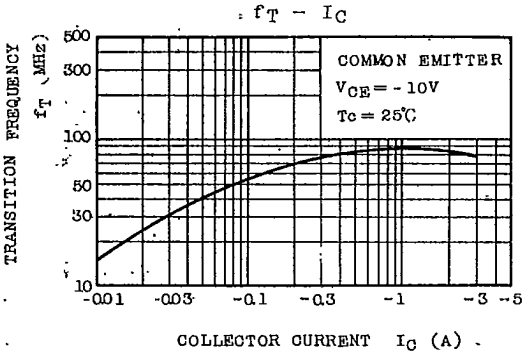

$V_{CE(sat)} - I_C$




$I_C - V_{BE}$




$f_T - I_C$



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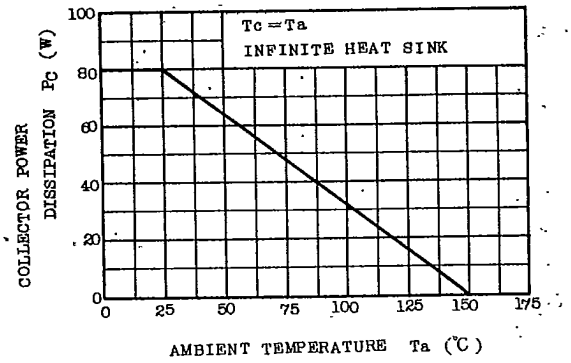
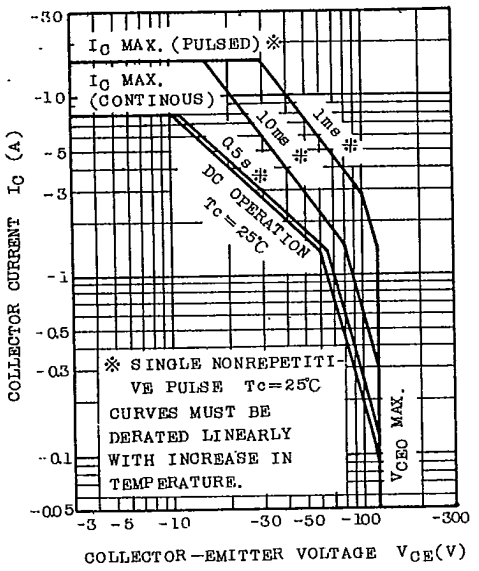
# 2SA1093

$P_C$ – Ta




SAFE OPERATING AREA



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