

KSB772

Audio Frequency Power Amplifier

- Low Speed Switching
- Complement to KSD882



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Value | Units | |
|--|--|------------|-------|--|
| V _{CBO} | Collector-Base Voltage | - 40 | V | |
| V _{CEO} | Collector-Emitter Voltage | - 30 | V | |
| V _{EBO} | Emitter-Base Voltage | - 5 | V | |
| I _C | Collector Current (DC) | - 3 | А | |
| I _{CP} | *Collector Current (Pulse) | - 7 | А | |
| I _B | Base Current (DC) | - 0.6 | А | |
| P _C | Collector Dissipation (T _C =25°C) | 10 | W | |
| | Collector Dissipation (T _a =25°C) | 1 | W | |
| R _{θja} | Junction to Ambient | 132 | °C/W | |
| R _{θjc} | Junction to Case | 13.5 | °C/W | |
| R _{θja} R _{θjc} Τ _J | Junction Temperature | 150 | °C | |
| T _{STG} | Storage Temperature | - 55 ~ 150 | °C | |

* PW≤10ms, Duty Cycle≤50%

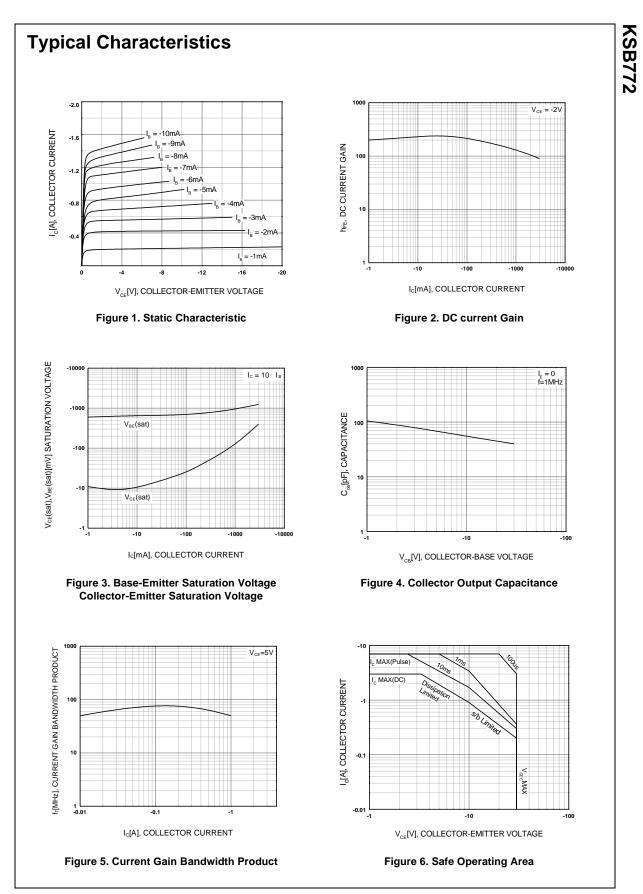
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|-----------------------|--|---|------|-------|-------|-------|
| I _{CBO} | Collector Cut-off Current | $V_{CB} = -30V, I_{E} = 0$ | | | - 1 | μA |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -3V, I_{C} = 0$ | | | - 1 | μA |
| h _{FE1} | * DC Current Gain | V _{CE} = - 2V, I _C = - 20mA | 30 | 220 | | |
| h _{FE2} | | $V_{CE} = -2V, I_{C} = -1A$ | 60 | 160 | 400 | |
| V _{CE} (sat) | * Collector-Emitter Saturation Voltage | I _C = - 2A, I _B = - 0.2A | | - 0.3 | - 0.5 | V |
| V _{BE} (sat) | * Base-Emitter Saturation Voltage | I _C = - 2A, I _B = - 0.2A | | - 1.0 | - 2.0 | V |
| f _T | Current Gain Bandwidth Product | V _{CE} = - 5V, I _E = - 0.1A | | 80 | | MHz |
| C _{ob} | Output Capacitance | V _{CB} = - 10V, I _E = 0 | | 55 | | pF |
| | | f = 1MHz | | | | |

* Pulse Test: PW≤350µs, Duty Cycle≤2%

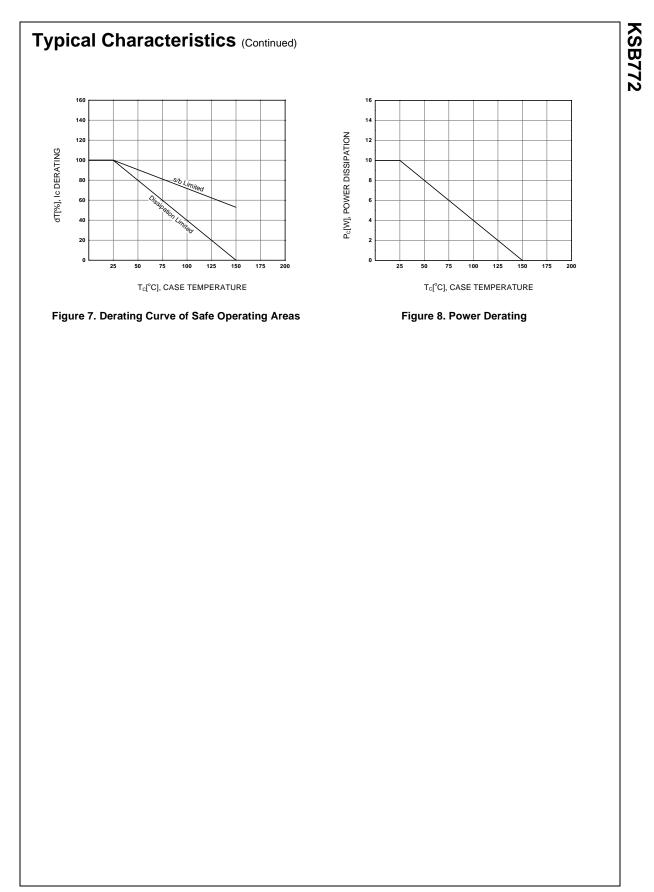
h_{FE} Classificntion

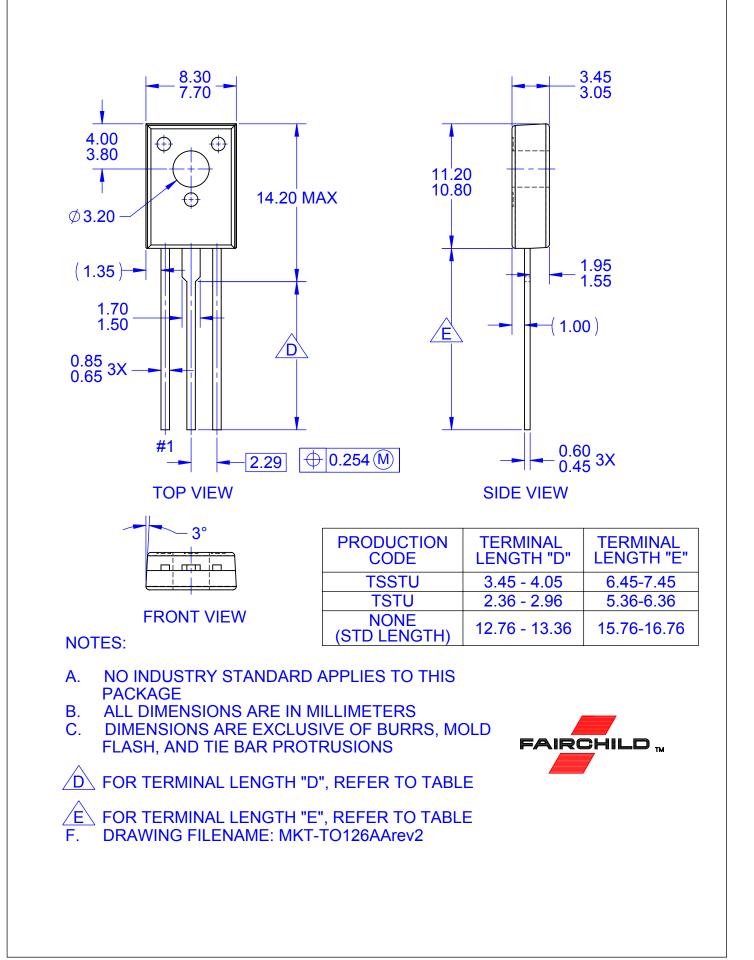
| Classification | R | 0 | Y | G |
|------------------|----------|-----------|-----------|-----------|
| h _{FE2} | 60 ~ 120 | 100 ~ 200 | 160 ~ 320 | 200 ~ 400 |



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