FAIRCHILD

SEMICONDUCTOR®

KSB834

Low Frequency Power Amplifier

Complement to KSD880



1.Base 2.Collector 3.Emitter

PNP Silicon Epitaxial Transistor

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

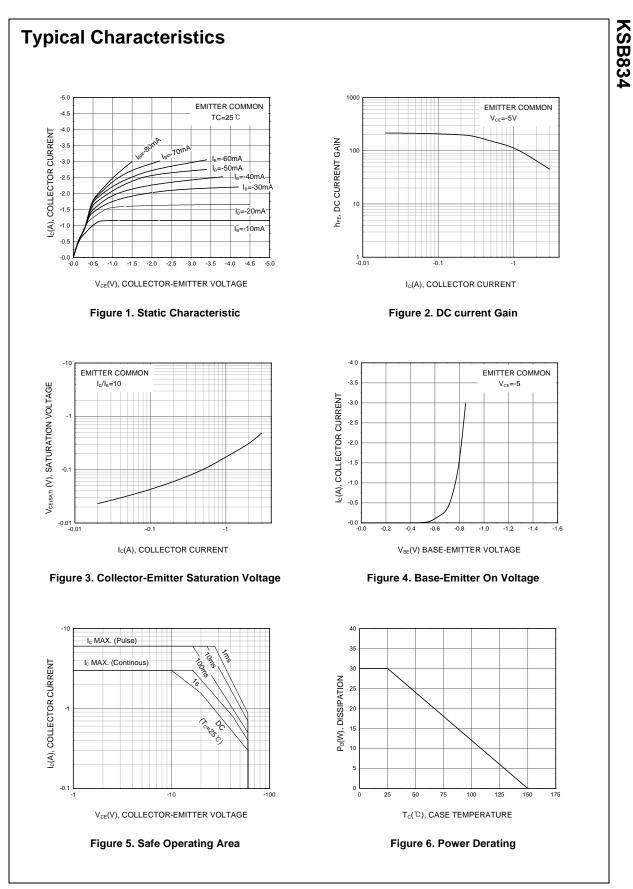
| Symbol | Parameter | Value | Units |
|------------------|--|------------|-------|
| V _{CBO} | Collector-Base Voltage | - 60 | V |
| V _{CEO} | Collector-Emitter Voltage | - 60 | V |
| V _{EBO} | Emitter-Base Voltage | - 7 | V |
| I _C | Collector Current | - 3 | A |
| I _B | Base Current | - 0.5 | A |
| P _C | Collector Dissipation (T _C =25°C) | 30 | W |
| P _C | Collector Dissipation (T _a =25°C) | 1.5 | W |
| TJ | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | - 55 ~ 150 | °C |

Electrical Characteristics T_C=25°C unless otherwise noted

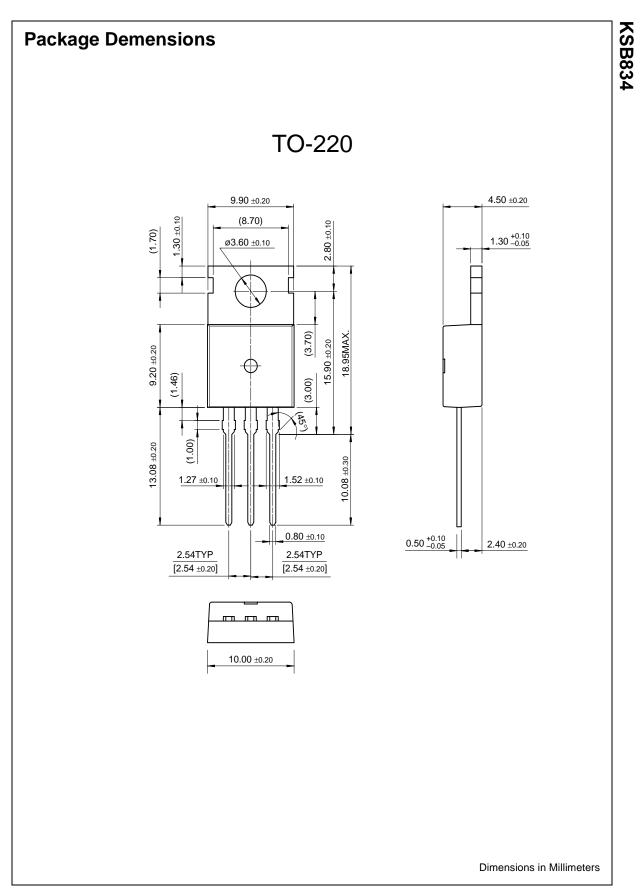
| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|--------------------------------------|--------------------------------------|--|----------|-------|-------|-------|
| I _{CBO} | Collector Cut-off Current | $V_{CB} = -60V, I_E = 0$ | | | - 100 | μΑ |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -7V, I_{C} = 0$ | | | - 100 | μΑ |
| BV _{CEO} | Collector-Emitter Breakdown Voltage | I _C = - 50mA, I _B = 0 | - 60 | | | V |
| h _{FE1} h _{FE2} | DC Current Gain | $V_{CE} = -5V, I_{C} = -0.5A$ $V_{CE} = -5V, I_{C} = -3A$ | 60 20 | | 200 | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I _C = - 3A, I _B = - 0.3A | | - 0.5 | - 1 | V |
| V _{BE} (on) | Base-Emitter ON Voltage | V _{CE} = - 5V, I _C = - 0.5A | | - 0.7 | - 1 | V |
| f _T | Current Gain Bandwidth Product | V _{CE} = - 5V, I _C = - 0.5A | | 9 | | MHz |
| C _{ob} | Output Capacitance | V _{CB} = - 10V, I _E = 0 f = 1MHz | | 150 | | pF |
| t _{ON} | Turn ON Time | V _{CC} = -30V, I _C = -1A | | 0.4 | | μs |
| T _{STG} | Storage Time | $I_{B1} = -I_{B2} = -0.2A$ | | 1.7 | | μs |
| t _F | Fall Time | $R_L = 30\Omega$ | | 0.5 | | μs |

h_{FE} Classification

| | | Y | |
|------------------|----------|-----------|--|
| h _{FE1} | 60 ~ 120 | 100 ~ 200 | |



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|--------------------------|---------------------------|---|
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