# FAIRCHILD

SEMICONDUCTOR TM

# KSB1097

## Low Frequency Power Amplifier

- Low Speed Switchng Industrial Use
- Complement to KSD1588



1.Base 2.Collector 3.Emitter

# **PNP Epitaxial Silicon Transistor**

## Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	- 80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 60	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 7	V
I <sub>C</sub>	Collector Current (DC)	- 7	Α
I <sub>CP</sub>	*Collector Current (Pulse)	- 15	Α
	Base Current	- 3.5	Α
P <sub>C</sub>	Collector Dissipation (T <sub>a</sub> =25°C)	2	W
I <sub>B</sub> P <sub>C</sub> P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	30	W
ТJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

\* PW≤300μs, Duty Cycle≤10%

### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

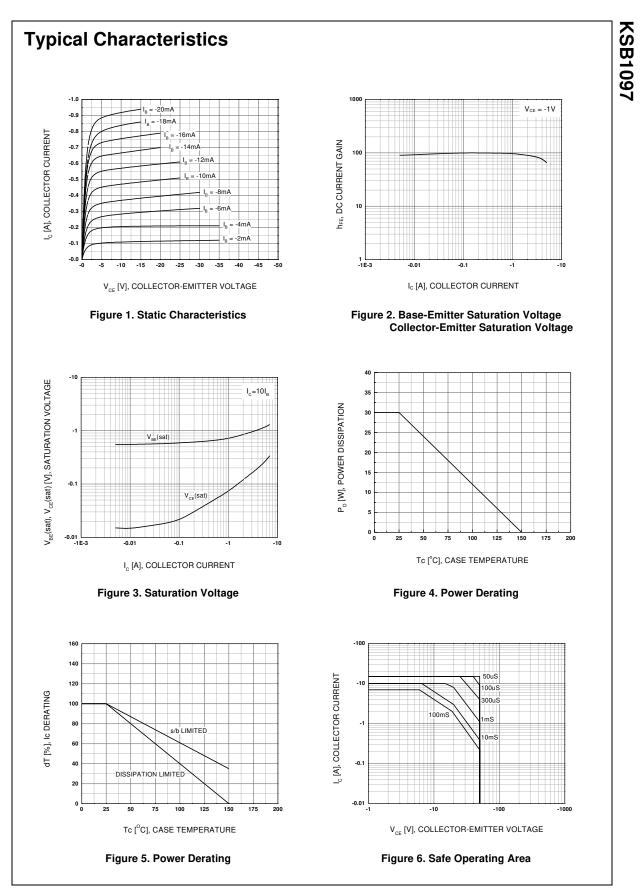
Symbol	Parameter	Test Condition	Min.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -60V, I_{E} = 0$		- 10	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 10	μA
h <sub>FE1</sub>	* DC Current Gain	V <sub>CE</sub> = - 1V, I <sub>C</sub> = - 3A	40	200	
h <sub>FE2</sub>		$V_{CE} = -1V, I_{C} = -5A$	20		
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 5A, I <sub>B</sub> = - 0.5A		- 0.5	V
V <sub>BE</sub> (sat)	* Base-Emitter Saturation Voltage	I <sub>C</sub> = - 5A, I <sub>B</sub> = - 0.5A		- 1.5	V

\* Pulse Test: PW≤350µs, Duty Cycle≤2% Pulsed

## h<sub>FE</sub> Classification

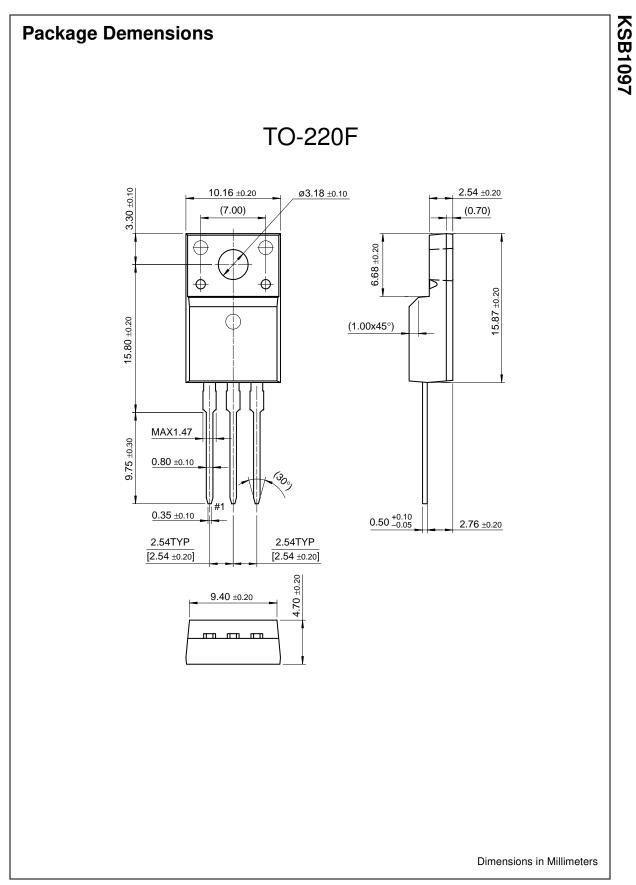
Classification	R	0	Y
h <sub>FE1</sub>	40 ~ 80	60 ~ 120	100 ~ 200

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Rev. A, February 2000



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