FAIRCHILD

SEMICONDUCTOR TM

KSB707/708

Low Frequency Power Amplifier

- Low Speed Switching
- Industrial Use
- Complement to KSD568/569



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Paramete	er	Value	Units
V _{CBO}	Collector-Base Voltage		- 80	V
V _{CEO}	Collector-Emitter Voltage	: B707 : B708	- 60 - 80	V V
V _{EBO}	Emitter-Base Voltage		- 7.0	V
I _C	Collector Current (DC)		- 7.0	А
I _{CP}	*Collector Current (Pulse)		- 15	A
	Base Current (DC)		- 3.5	А
P _C	Collector Dissipation (T _C =25°C)		40	W
P _C	Collector Dissipation (T _a =25°C)		1.5	W
I _B PC PC TJ	Junction Temperature		150	°C
T _{STG}	Storage Temperature		- 55 ~ 150	°C

PW≤300µs, Duty Cycle≤10%

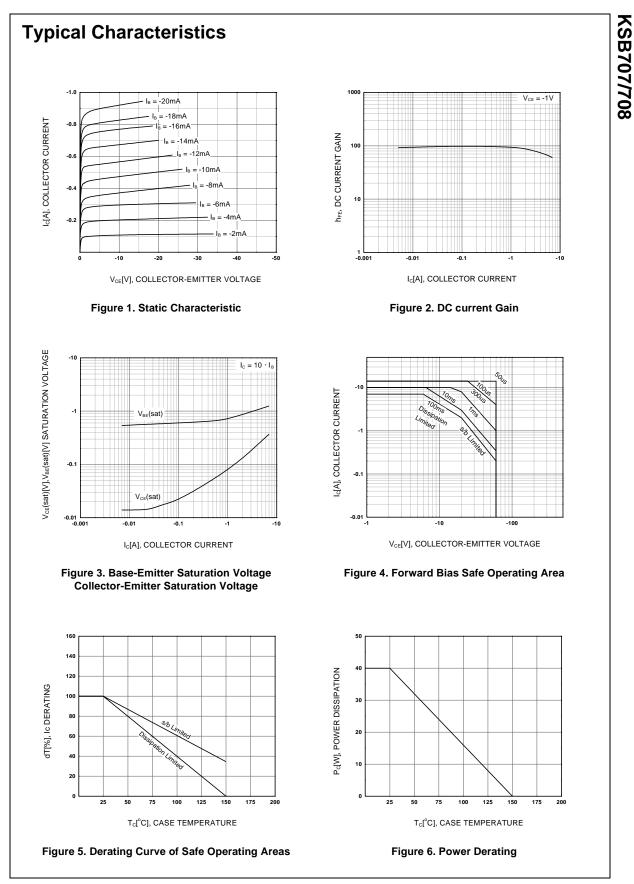
Electrical Characteristics T_C=25°C unless otherwise noted

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

* Pulse Test: PW≤350µs, Duty Cycle≤2%

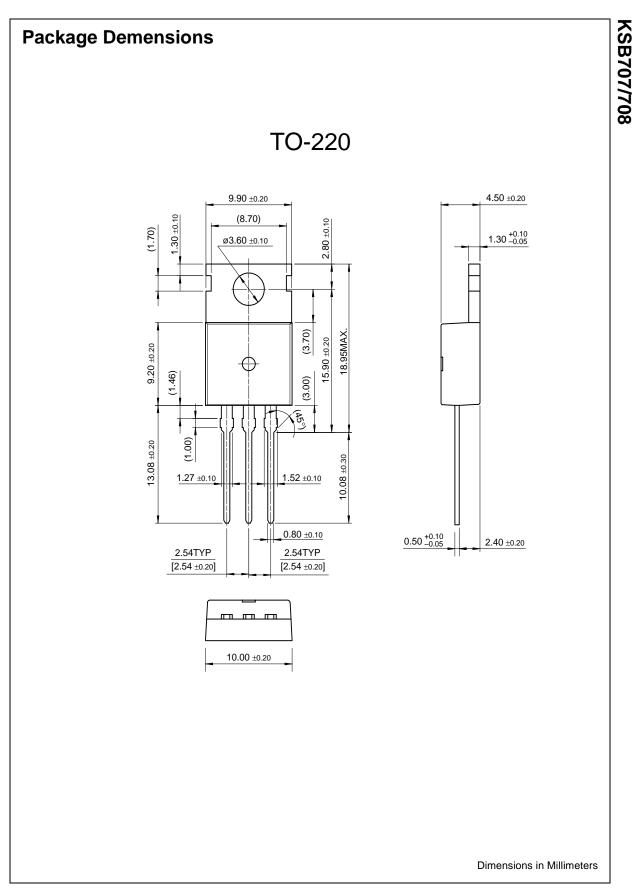
h_{FE} Cassification

Classification	R	0	Y
h _{FE1}	40 ~ 80	60 ~ 120	100 ~ 200



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Definition of Terms

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