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_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 80	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	- 7	V
I _C	Collector Current (DC)	- 7	Α
I _{CP}	*Collector Current (Pulse)	- 15	Α
	Base Current	- 3.5	Α
P _C	Collector Dissipation (T _a =25°C)	2	W
I _B P _C P _C	Collector Dissipation (T _C =25°C)	30	W
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

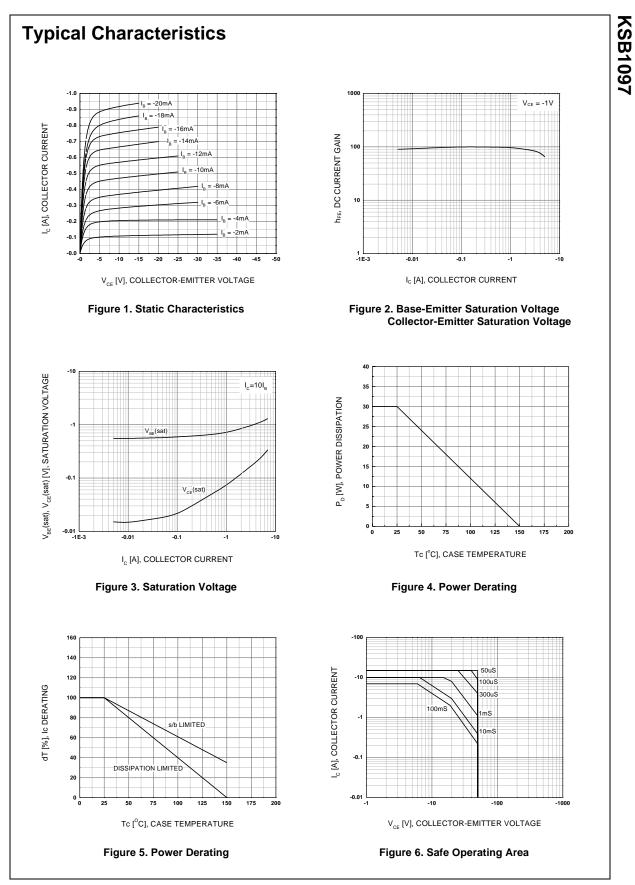
Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = -60V, I_E = 0$		- 10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 10	μΑ
h _{FE1}	* DC Current Gain	V _{CE} = - 1V, I _C = - 3A	40	200	
h _{FE2}		$V_{CE} = -1V, I_{C} = -5A$	20		
V _{CE} (sat)	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% Pulsed

h_{FE} Classification

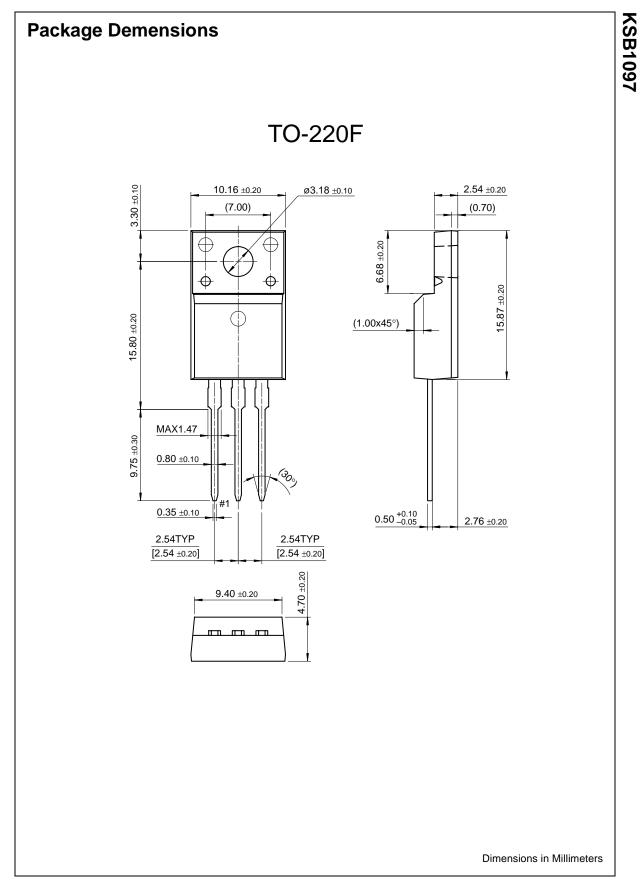
Classification	R	0	Y
h _{FE1}	40 ~ 80	60 ~ 120	100 ~ 200

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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