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SEMICONDUCTOR®

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 _{θjc} T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

* PW≤10ms, Duty Cycle≤50%

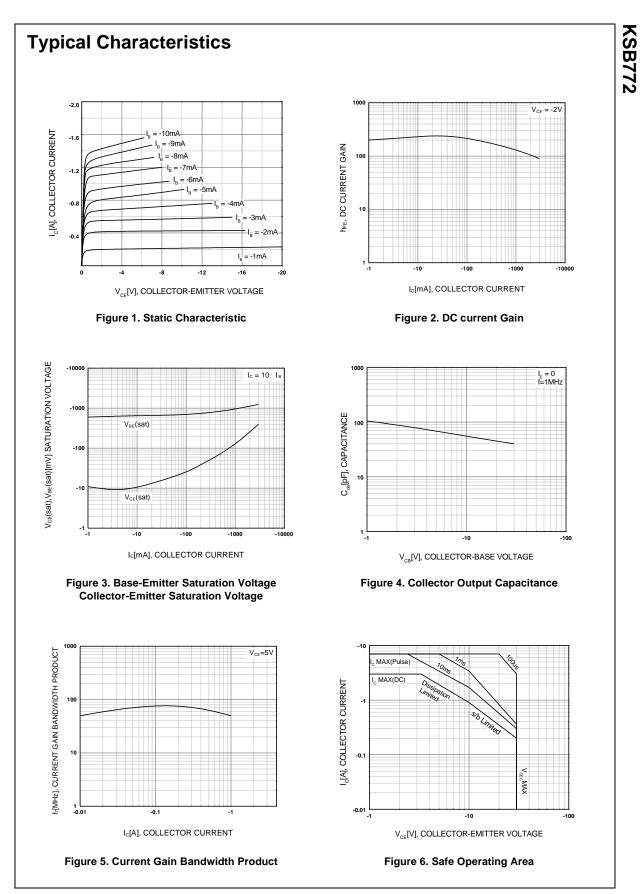
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

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	μΑ
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	$V_{CB} = -10V$, $I_E = 0$ f = 1MHz		55		pF

* Pulse Test: PW≤350µs, Duty Cycle≤2%

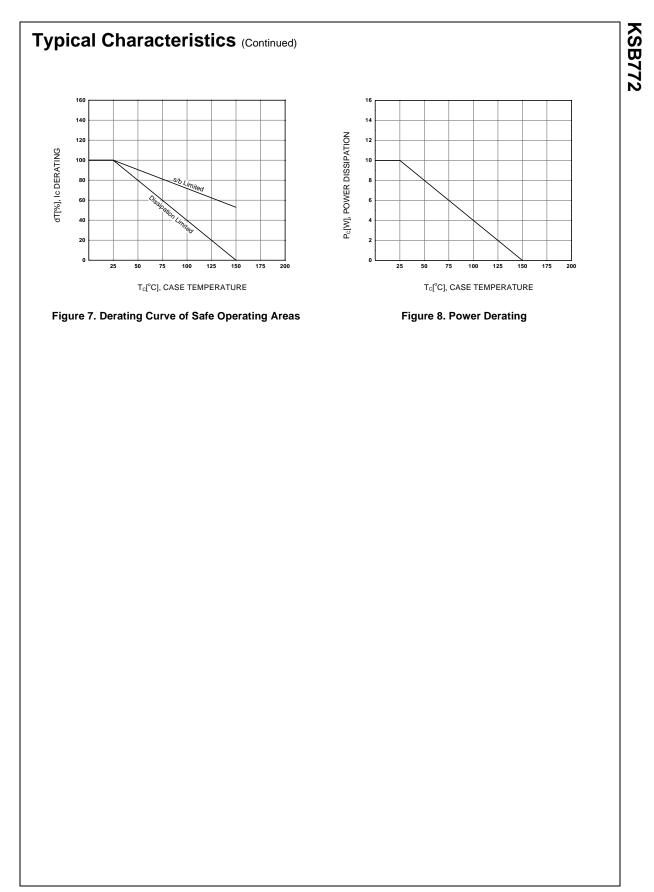
h_{FE} Classificntion

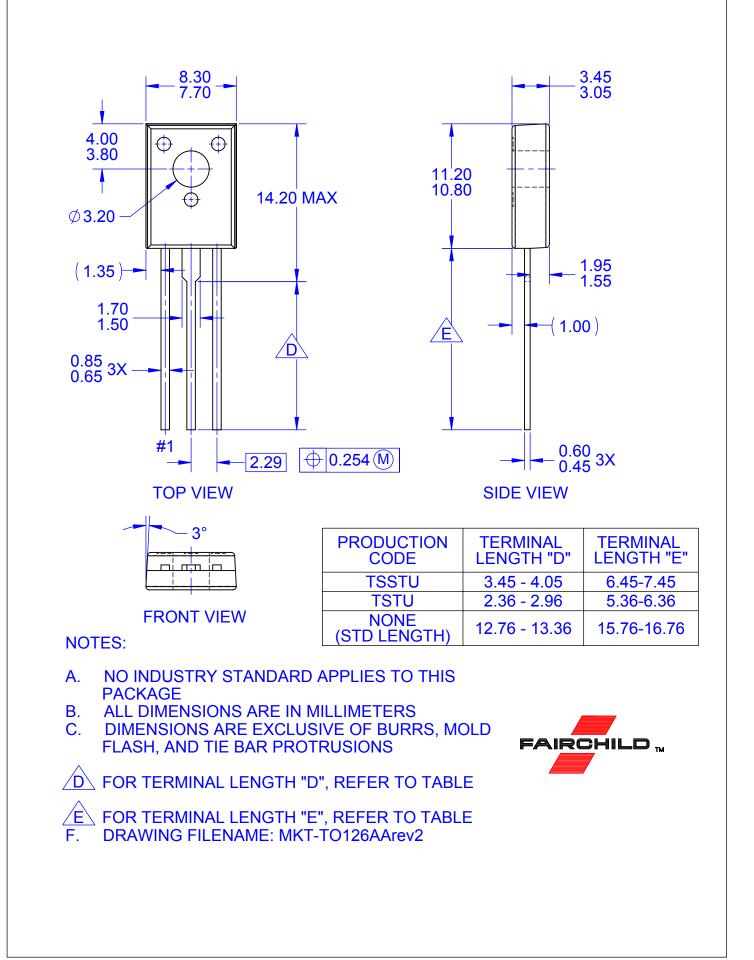
Classification	R	0	Y	G
h _{FE2}	60 ~ 120	100 ~ 200	160 ~ 320	200 ~ 400



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Rev. B, October 2002





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