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### **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 <sub>CBO</sub>	Collector-Base Voltage	- 40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 30	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 5	V
I <sub>C</sub>	Collector Current (DC)	- 3	А
I <sub>CP</sub>	*Collector Current (Pulse)	- 7	А
I <sub>B</sub>	Base Current (DC)	- 0.6	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	10	W
	Collector Dissipation (T <sub>a</sub> =25°C)	1	W
R <sub>θja</sub>	Junction to Ambient	132	°C/W
R <sub>θjc</sub>	Junction to Case	13.5	°C/W
R <sub>θja</sub> R <sub>θjc</sub> Τ <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

\* PW≤10ms, Duty Cycle≤50%

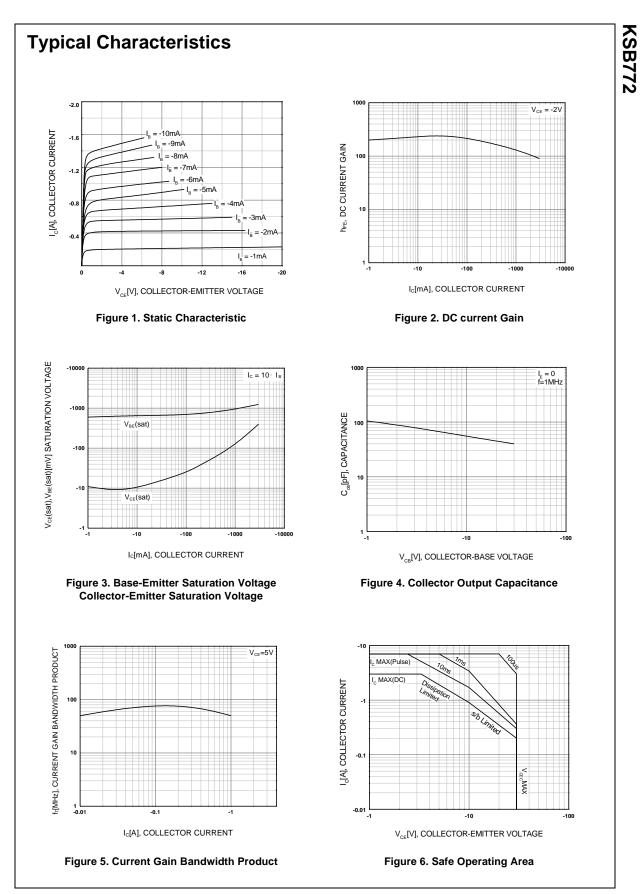
#### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -30V, I_{E} = 0$			- 1	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -3V, I_{C} = 0$			- 1	μA
h <sub>FE1</sub>	* DC Current Gain	V <sub>CE</sub> = - 2V, I <sub>C</sub> = - 20mA	30	220		
h <sub>FE2</sub>		$V_{CE} = -2V, I_{C} = -1A$	60	160	400	
V <sub>CE</sub> (sat)	* Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 2A, I <sub>B</sub> = - 0.2A		- 0.3	- 0.5	V
V <sub>BE</sub> (sat)	* Base-Emitter Saturation Voltage	I <sub>C</sub> = - 2A, I <sub>B</sub> = - 0.2A		- 1.0	- 2.0	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = - 5V, I <sub>E</sub> = - 0.1A		80		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = - 10V, I <sub>E</sub> = 0		55		pF
		f = 1MHz				

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

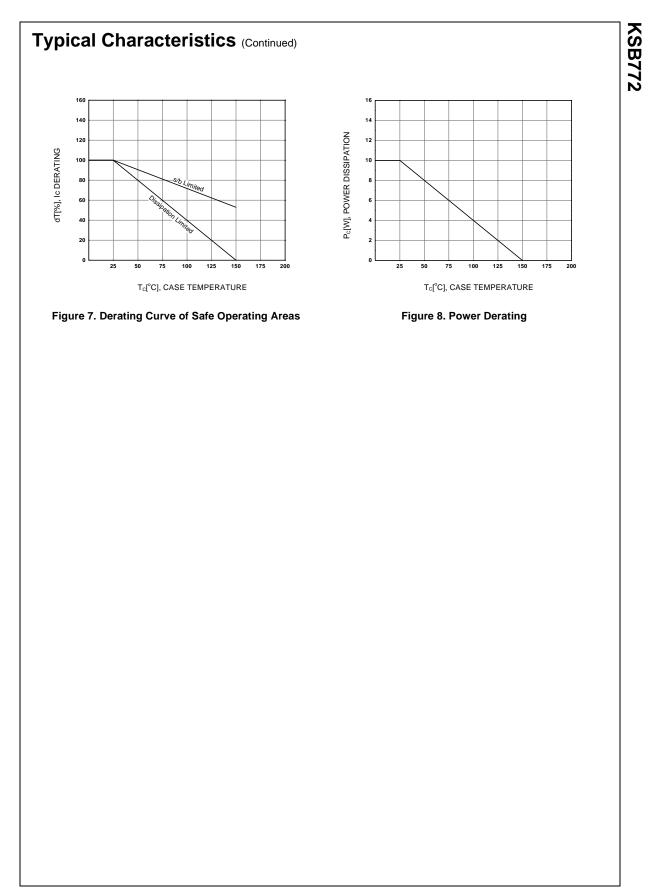
#### h<sub>FE</sub> Classificntion

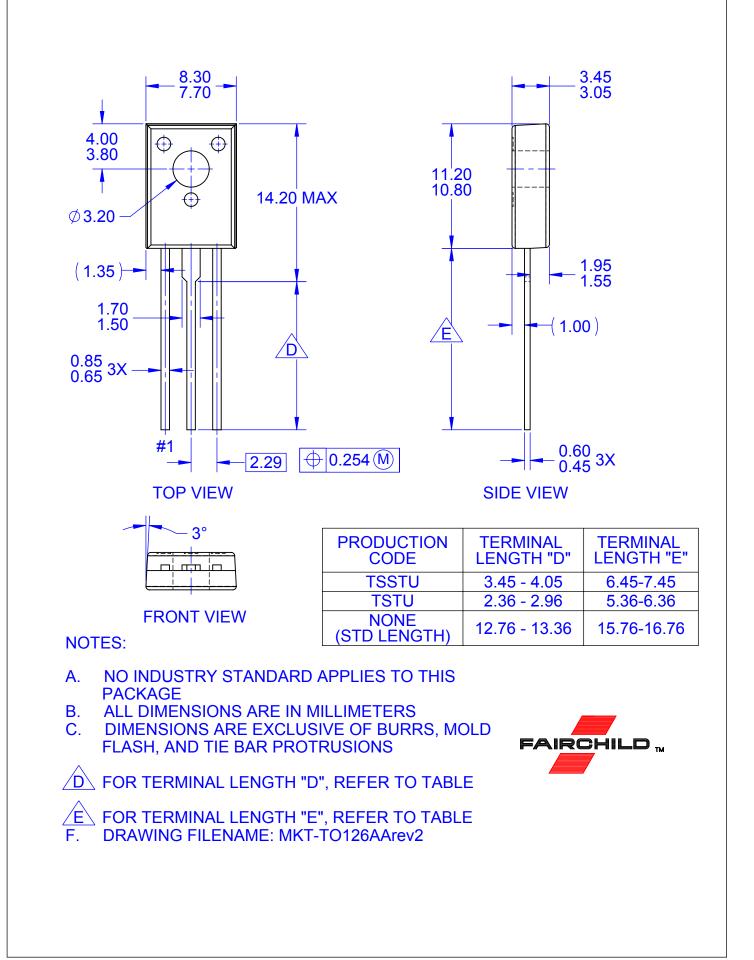
Classification	R	0	Y	G
h <sub>FE2</sub>	60 ~ 120	100 ~ 200	160 ~ 320	200 ~ 400



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Rev. B, October 2002





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