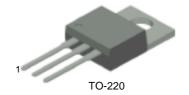


## KSB707/708

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

Symbol	Parameter		Value	Units
V <sub>CBO</sub>	Collector-Base Voltage		- 80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	: B707 : B708	- 60 - 80	V V
V <sub>EBO</sub>	Emitter-Base Voltage		- 7.0	V
I <sub>C</sub>	Collector Current (DC)		- 7.0	А
I <sub>CP</sub>	*Collector Current (Pulse)		- 15	А
I <sub>B</sub>	Base Current (DC)		- 3.5	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)		40	W
P <sub>C</sub>	Collector Dissipation (T <sub>a</sub> =25°C)		1.5	W
T <sub>J</sub>	Junction Temperature		150	°C
T <sub>STG</sub>	Storage Temperature		- 55 ~ 150	°C

<sup>\*</sup> PW≤300μs, Duty Cycle≤10%

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

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

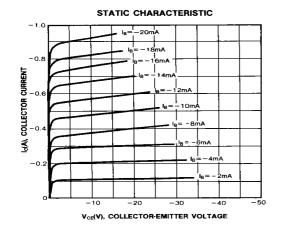
<sup>\*</sup> Pulse Test: PW≤350µs, Duty Cycle≤2%

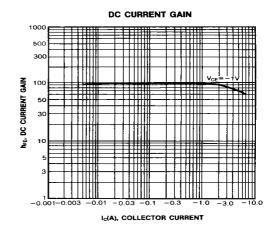
## **h**<sub>FE</sub> Cassification

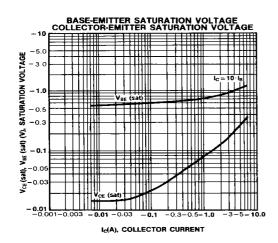
Classification	R	0	Υ
h <sub>FE1</sub>	40 ~ 80	60 ~ 120	100 ~ 200

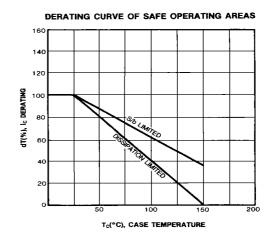
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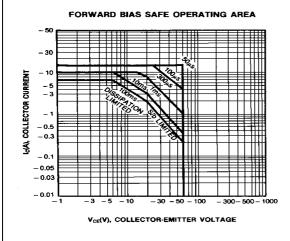
# **Typical Characteristics**

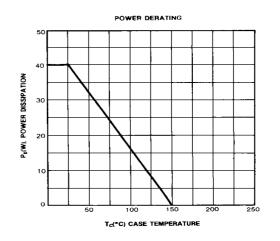








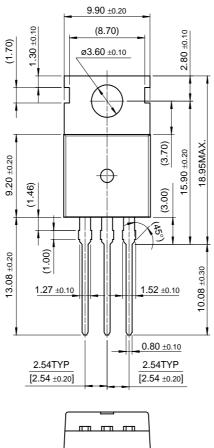


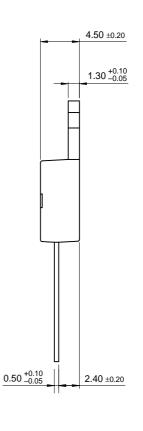


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# **Package Dimensions**

# TO-220





 $10.00 \pm 0.20$ 

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