

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 _{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	Α	
I _B	Base Current (DC)		- 3.5	А	
P _C	Collector Dissipation (T _C =25°C)		40	W	
P _C P _C	Collector Dissipation (T _a =25°C)		1.5	W	
T _J	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	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%

h_{FE} Cassification

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

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Typical Characteristics

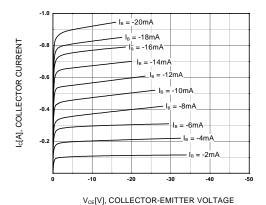


Figure 1. Static Characteristic

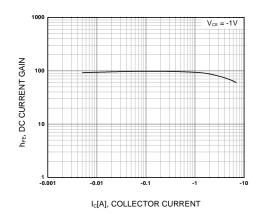


Figure 2. DC current Gain

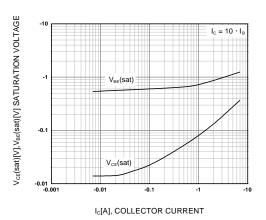


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

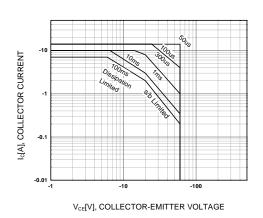


Figure 4. Forward Bias Safe Operating Area

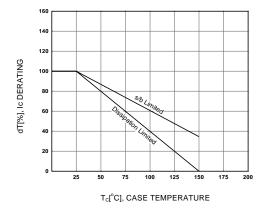


Figure 5. Derating Curve of Safe Operating Areas

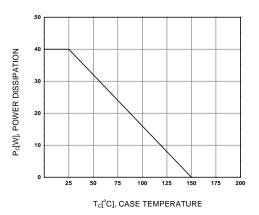
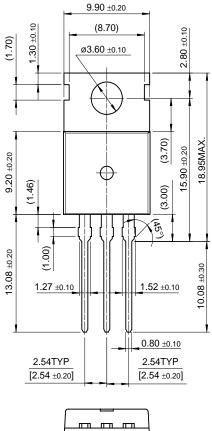


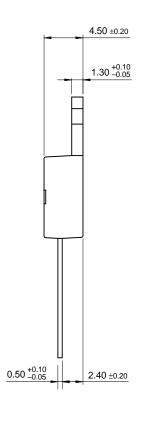
Figure 6. Power Derating

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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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