

SEMICONDUCTOR TM

KSD568/569

Low Frequency Power Amplifier

- Low Speed Switching Industrial UseComplement to KSB707/708



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter		Value	Units	
V _{CBO}	Collector-Base Voltage		100	V	
V _{CEO}	Collector-Emitter Voltage	: KSD568 : KSD569	60 80	V V	
V _{EBO}	Emitter-Base Voltage		7	V	
I _C	Collector Current (DC)		7	Α	
I _{CP}	*Collector Current (Pulse)		15	А	
I _B	Base Current		3.5	А	
P _C	Collector Dissipation (T _C =25°C)		40	W	
P _C	Collector Dissipation (T _a =25°C)		1.5	W	
TJ	Junction Temperature		150	°C	
T _{STG}	Storage Temperature		- 55 ~ 150	°C	

PW≤300µs, Duty Cycle≤10%

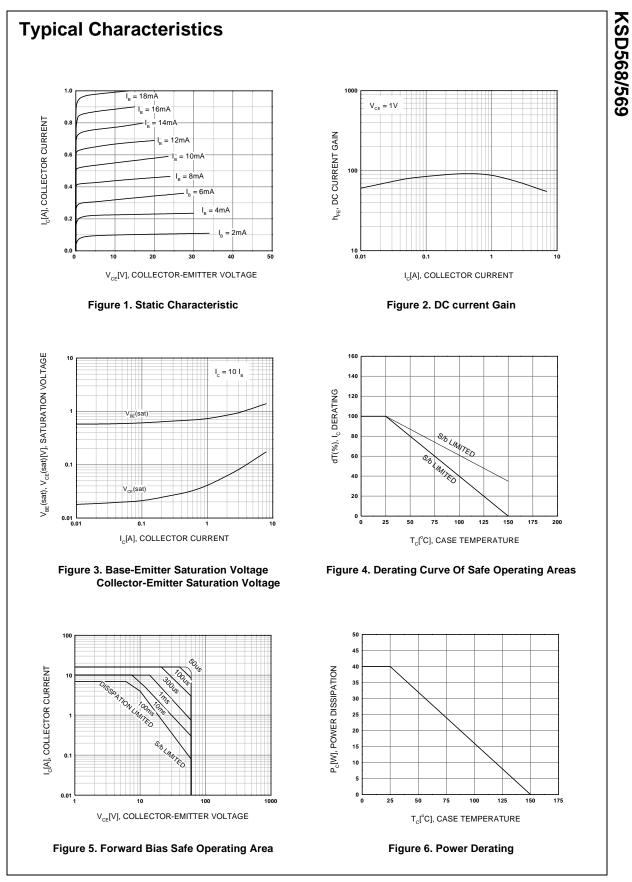
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = 80V, I_{E} = 0$		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	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.5$ A		0.5	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.5$ A		1.5	V

* Pulse Test: PW≤350µs, Duty Cycle≤2%

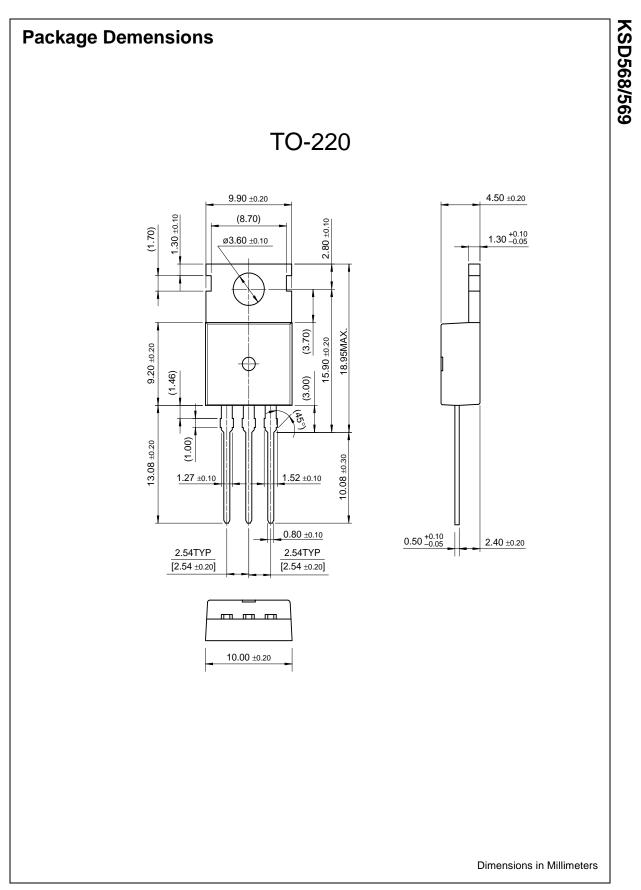
h_{FE} Classification

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



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Rev. A, February 2000



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