

# PNP Transistor KSB707 datasheet

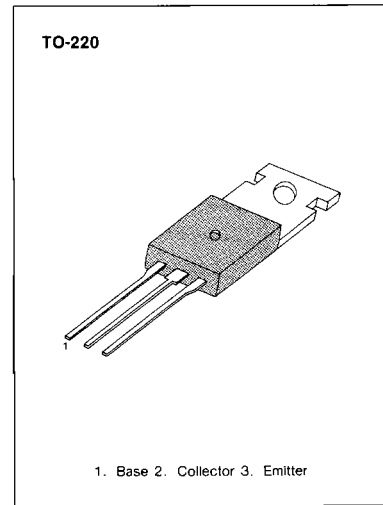
## LOW FREQUENCY POWER AMPLIFIER LOW SPEED SWITCHING INDUSTRIAL USE

• Complement to KSD568/569

### ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-80	V
Collector-Emitter Voltage: B707	$V_{CEO}$	-60	V
: B708	$V_{CEO}$	-80	V
Emitter-Base Voltage	$V_{EBO}$	-7.0	V
Collector Current (DC)	$I_C$	-7.0	A
*Collector Current (Pulse)	$I_C$	-15	A
Base Current (DC)	$I_B$	-3.5	A
Collector Dissipation ( $T_a = 25^\circ\text{C}$ )	$P_C$	40	W
Collector Dissipation ( $T_c = 25^\circ\text{C}$ )	$P_C$	1.5	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55~150	$^\circ\text{C}$

\*  $PW \leq 300\mu\text{s}$ , Duty Cycle  $\leq 10\%$



### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = -60\text{V}, I_E = 0$		-10	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$		-10	$\mu\text{A}$
*DC Current Gain	$h_{FE1}$	$V_{CE} = -1\text{V}, I_C = -3\text{A}$	40	200	
	$h_{FE2}$	$V_{CE} = -1\text{V}, I_C = -5\text{A}$	20		
*Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$	$I_C = -5\text{A}, I_B = -0.5\text{A}$		-0.5	V
*Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$	$I_C = -5\text{A}, I_B = -0.5\text{A}$		-1.5	V

\*Pulse Test:  $PW \leq 350\mu\text{s}$ , Duty Cycle  $\leq 2\%$

### $h_{FE}$ (1) CLASSIFICATION

Classification	R	O	Y
$h_{FE}$ (1)	40-80	60-120	100-200

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