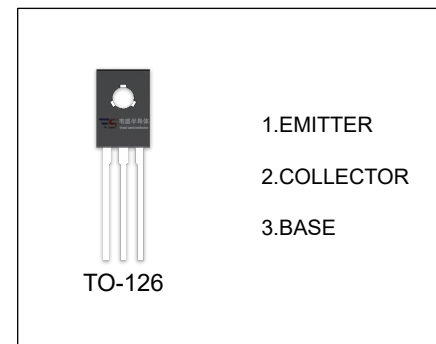


## KSA1220 / KSA1220A TRANSISTOR (PNP)

### FEATURES

- Audio Frequency Power Amplifier
- High Frequency Power Amplifier
- Complement to KSC2690/KSC2690A



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KSA1220	TO-126	Bulk	200pcs/Bag
KSA1220A	TO-126	Bulk	200pcs/Bag
KSA1220-TU	TO-126	Tube	60pcs/Tube
KSA1220A-TU	TO-126	Tube	60pcs/Tube

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V <sub>CB0</sub>	Collector-Base Voltage	KSA1220	-120	V
		KSA1220A	-160	V
V <sub>CEO</sub>	Collector-Emitter Voltage	KSA1220	-120	V
		KSA1220A	-160	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
I <sub>c</sub>	Collector Current (DC)	-1.2	A	
I <sub>CP</sub>	Collector Current ( PW ≤10ms,Duty Cycle ≤2 % )	-2.5	A	
I <sub>B</sub>	Base Current	-0.3	A	
P <sub>C</sub>	Collector Power Dissipation (T <sub>a</sub> = 25 °C)	1.25	W	
	Collector Power Dissipation (T <sub>c</sub> = 25 °C)	20	W	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	°C	

$T_a=25\text{ }^\circ\text{C}$  unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector cut-off current	$I_{CBO}$	$V_{CB}=-120V, I_E=0$			-1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-3V, I_C=0$			-1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE}=-5V, I_C=-5\text{mA}$	35			
	$h_{FE(2)}$	$V_{CE}=-5V, I_C=-300\text{mA}$	60		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-1A, I_B=-200\text{mA}^{(1)}$		-0.4	-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-1A, I_B=-200\text{mA}^{(1)}$		-1	-1.3	V
Transition frequency	$f_T$	$V_{CE}=-5V, I_C=-200\text{mA}$		175		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1\text{MHz}$		26		pF

<sup>(1)</sup> Pulse Test :  $PW \leq 350\mu\text{s}$  , Duty Cycle  $\leq 2\%$

#### CLASSIFICATION OF $h_{FE(2)}$

Rank	R	O	Y
Range	60-120	100-200	160-320