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FAIRCHILD

SEMICONDUCTOR®

KSA1220/1220A

Audio Frequency Power Amplifier High Frequency Power Amplifier

Complement to KSC2690/KSC2690A



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Par	rameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	: KSA1220	- 120	V
		: KSA1220A	- 160	V
V _{CEO}	Collector-Emitter Voltage	: KSA1220	- 120	V
		: KSA1220A	- 160	V
V _{EBO}	Emitter-Base Voltage		- 5	V
I _C	Collector Current (DC)		- 1.2	Α
I _{CP}	*Collector Current (Pulse)		- 2.5	Α
I _B	Base Current		- 0.3	Α
P _C	Collector Dissipation (T _a =25°C)		1.2	W
P _C P _C	Collector Dissipation (T _C =25°C)		20	W
ТJ	Junction Temperature		150	°C
T _{STG}	Storage Temperature		- 55 ~ 150	°C

PW≤10ms, Duty Cycle≤50%

Electrical Characteristics T_C=25°C unless otherwise noted

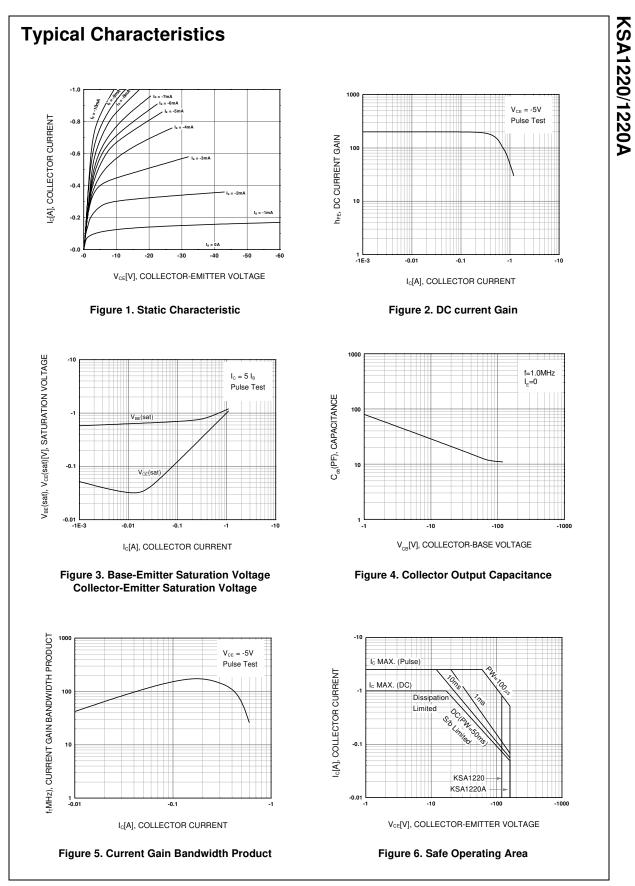
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = - 120V, I _E = 0			- 1	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -3V, I_{C} = 0$			- 1	μA
h _{FE1} h _{FE2}	* DC Current Gain	$V_{CE} = -5V, I_{C} = -5mA$ $V_{CE} = -5V, I_{C} = -0.3A$	35 60	150 140	320	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 1A, I _B = - 0.2A		- 0.4	- 0.7	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = - 1A, I _B = - 0.2A		- 1	- 1.3	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 5V, I _C = - 0.2A		175		MHz
C _{ob}	Output Capacitance	$V_{CB} = -10, I_E = 0$ f = 1MHz		26		pF

* Pulse Test: PW≤350µs, Duty Cycle≤2% Pulsed

h_{FE} Classification

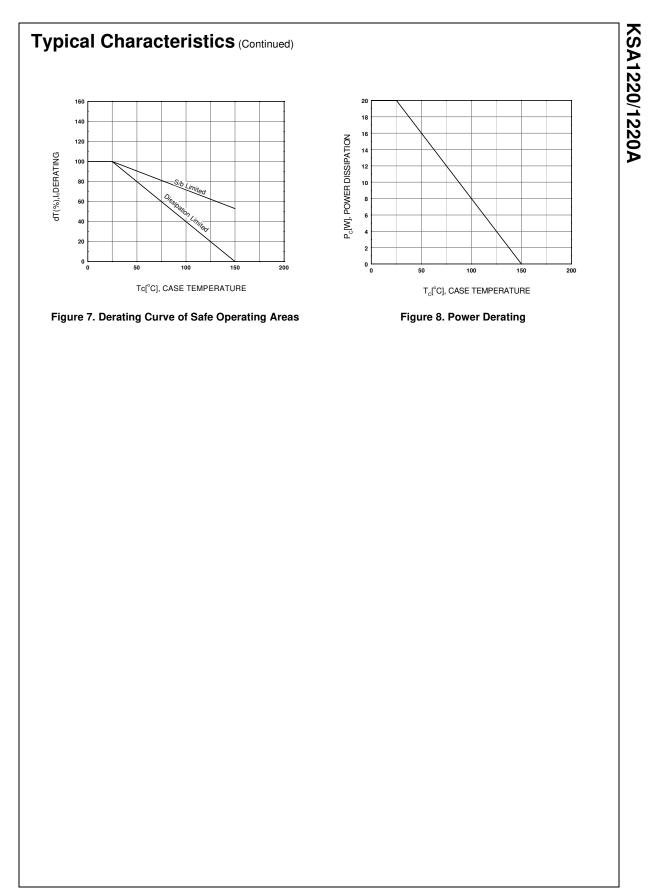
Classification	R	0	Y
h _{FE2}	60 ~ 120	100 ~ 200	160 ~ 320

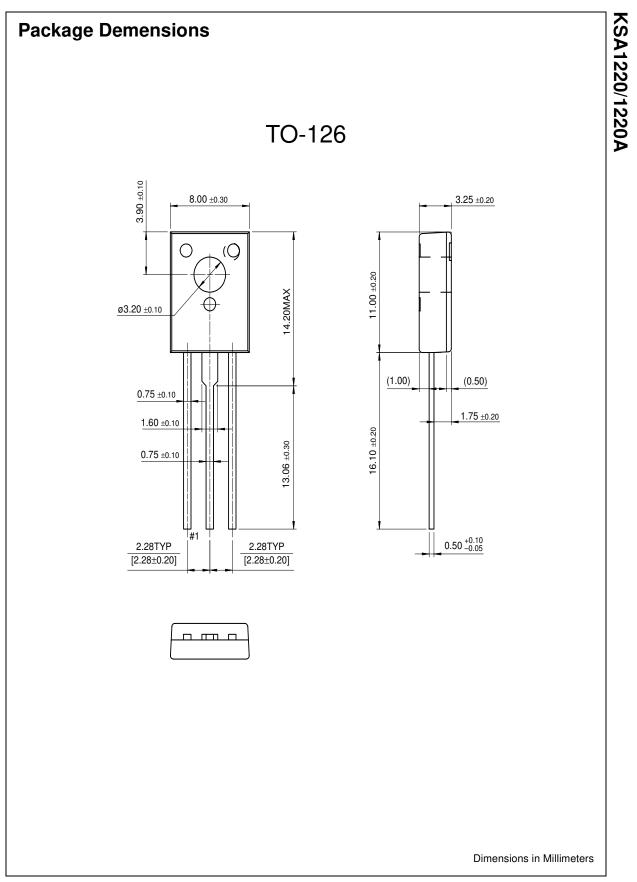
KSA1220/1220A



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Definition of Terms

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