

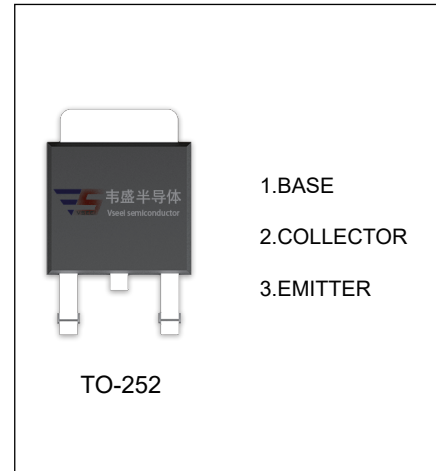
2SA1225 TRANSISTOR (PNP)

FEATURES

- High Transition Frequency
- Complementary to 2SC2983

APPLICATIONS

- Power Amplifier Applications
- Driver Stage Amplifier Applications



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-160	V
V _{CE0}	Collector-Emitter Voltage	-160	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-1.5	A
P _C	Collector Power Dissipation	1	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-1mA, I _E =0	-160			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =-10mA, I _B =0	-160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-1mA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =160V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-5V, I _C =-0.1A	70		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-0.5A, I _B =-50mA			-1.5	V
Base-emitter voltage	V _{BE}	V _{CE} =-5V, I _C =-0.5A			-1	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-100mA		100		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		30		pF

* Pulse test

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	70-140	120-240

Static Characteristic
