

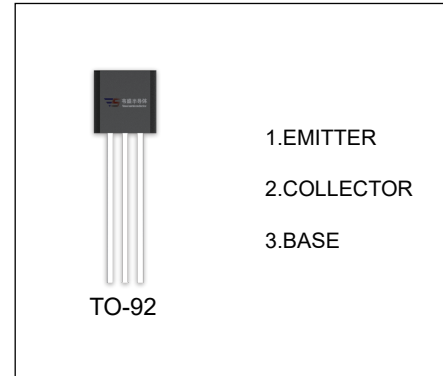
2SA1981 TRANSISTOR (PNP)

FEATURES

- High DC Current Gain
- Complementary Pair with 2SC5344

APPLICATIONS

- Audio Power Amplifier Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1981	TO-92	Bulk	1000pcs/Bag
2SA1981-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-35	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.8	A
P _D	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	200	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

T_a=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -0.5mA, I _E =0	-35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.05mA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-35V, 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} =-1V, I _C =-100mA	100		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-20mA			-0.5	V
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		19		pF
Transition frequency	f _T	V _{CE} =-5V, I _C =-10mA		120		MHz

CLASSIFICATION OF h_{FE}

RANK	O	Y
RANGE	100-200	160-320