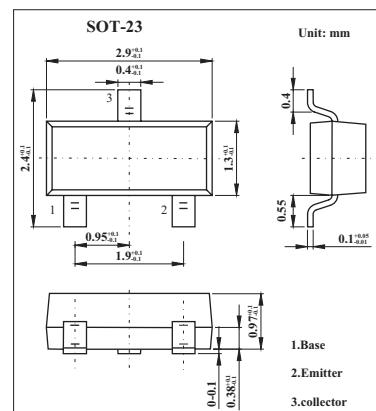


PNP Silicon Transistor

2SA1981SF

■ Features

- High H_{FE}: h_{FE}=100 to 320



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-35	V
Collector-emitter voltage	V _{C EO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-800	mA
Collector dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV _{CBO}	I _C =-500μA , I _E =0	-35			V
Collector-emitter breakdown voltage	BV _{C EO}	I _C =-1mA , I _B =0	-30			V
Emitter-base breakdown voltage	BV _{EBO}	I _E =-50μA, I _C =0	-5			V
Collector cutoff current	I _{CBO}	V _{CB} =-35V, I _E =0			-0.1	μA
Emitter cutoff current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current transfer ratio	h _{FE}	V _{CE} =-1V, I _C =-100mA	100	320		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C /I _B =-500mA/-20mA			-0.5	V
Transition frequency	f _T	V _{CE} =-5V, I _E =10mA,	120			MHz
Output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		19		pF

■ hFE Classification

Marking	EA	
Rank	O	Y
hFE	100~200	160~320