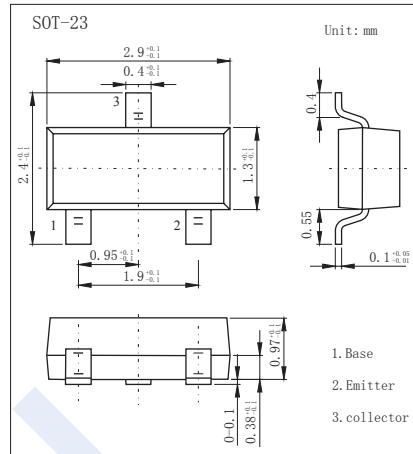


PNP Transistors

2SA1981SF

■ Features

- High h_{FE}: h_{FE}=100 to 320
- Complementary pair with 2SC5344SF



■ Absolute Maximum Ratings Ta = 25°C

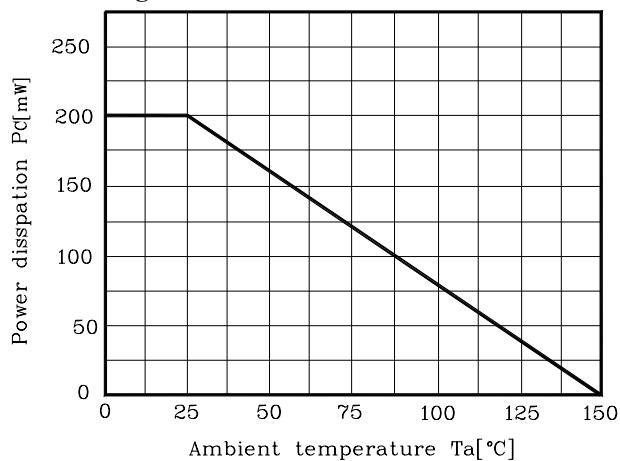
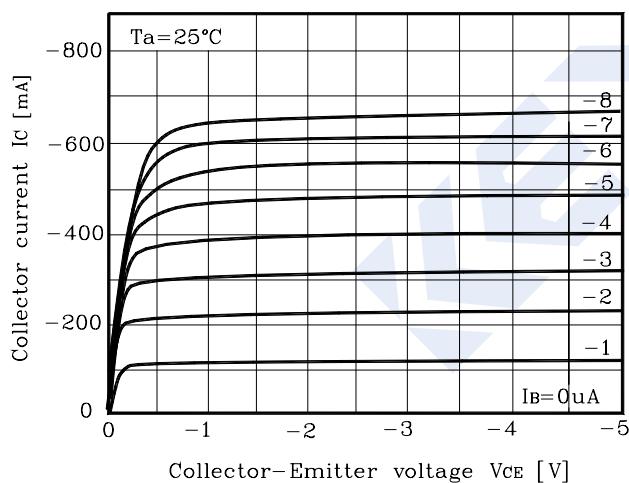
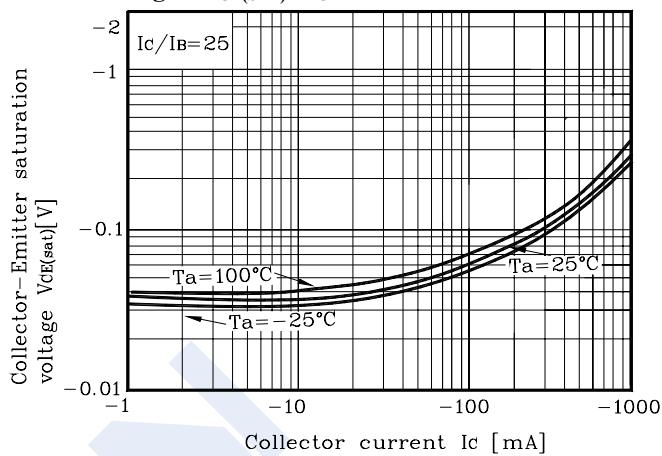
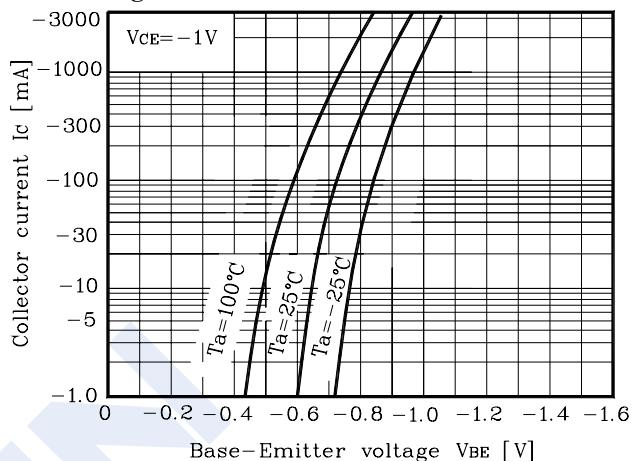
Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-35	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-800	mA
Collector dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _C = -500 μA, I _E =0	-35			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = -1 mA, I _B =0	-30			
Emitter - base breakdown voltage	V _{EBO}	I _E = -100 μ A, I _C =0	-5			
Collector-base cut-off current	I _{CBO}	V _{CB} = -35 V, I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V , I _C =0			-100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500 mA, I _B =- 20mA			-0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =-500 mA, I _B =- 20mA			-1.2	
DC current gain	h _{FE}	V _{CE} = -1V, I _C = -100mA	100		320	
Output capacitance	C _{ob}	V _{CE} = -10V, I _E =0, f=1MHz		19		pF
Transition frequency	f _T	V _{CE} = -5V, I _E = -10mA		120		MHz

■ Classification of h_{FE(1)}

Marking	EOA*	EAY*
Rank	O	Y
h _{FE}	100~200	160~320

PNP Transistors**2SA1981SF****■ Typical Characteristics****Fig. 1** P_c - T_a **Fig. 3** I_C - V_{CE} **Fig. 5** $V_{CE(SAT)}$ - I_C **Fig. 2** I_C - V_{BE} **Fig. 4** h_{FE} - I_C 