

2SA1979SF

PNP Silicon Transistor

unit: mm

Description

• Medium power amplifier

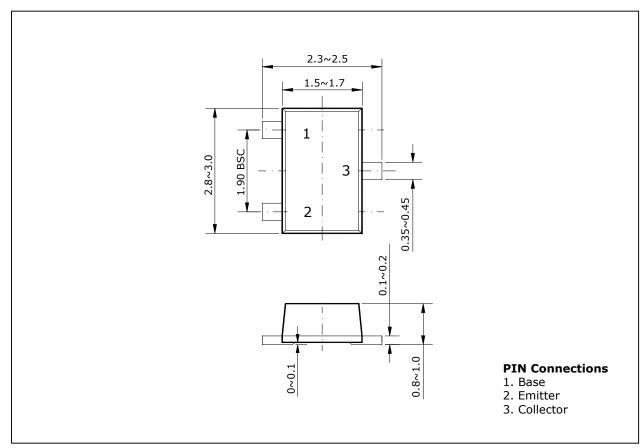
Features

- \bullet Large collector current : $I_{\text{CMax}} \text{=-}500 \text{mA}$
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342SF

Ordering Information

Type NO.	Marking	Package Code
2SA1979SF	$AA\square$	SOT-23F
	: h== rank	

Outline Dimensions



Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V_{CBO}	-40	V	
Collector-Emitter voltage	V_{CEO}	-32	V	
Emitter-Base voltage	V _{EBO} -5		V	
Collector current	I_{C}	-500	mA	
Collector dissipation	P _C	200	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55~150	°C	

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = -100 \mu A, I_E = 0$	-40	1	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-32	1	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	1	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-40V, I_{E} =0	-	1	-0.1	μΑ
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_C =0	-	1	-0.1	μА
DC current gain	h _{FE} *	V _{CE} =-1V, I _C =-100mA	70	1	240	ı
Collector-Emitter saturation voltage	$V_{\text{CE(sat)}}$	I _C =-100mA, I _B =-10mA	-	1	-0.25	V
Transistor frequency	f_T	V _{CE} =-6V, I _C =-20mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-6V, I_E =0, f=1MHz	-	7.5	-	pF

^{* :} h_{FE} rank / O : 70~140, Y : 120~240

Electrical Characteristic Curves

Fig. 1 P_C - T_a

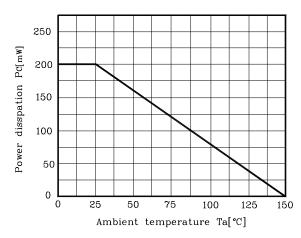


Fig. 2 I_C - V_{BE}

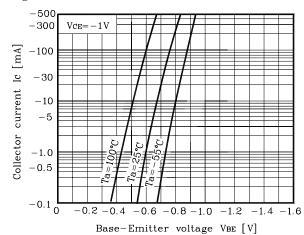


Fig. 3 I $_{\text{C}}\text{--}\ V_{\text{CE}}$

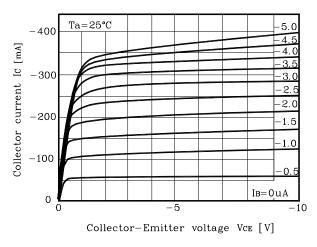


Fig. 4 $V_{\text{CE(sat)}}\,$ - $\,I_{\text{C}}$

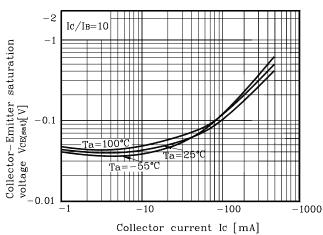


Fig. 5 h_{FE} - I_C

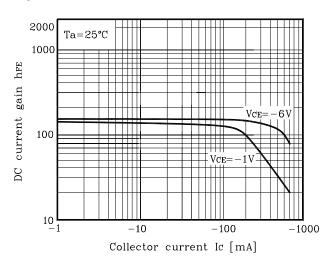
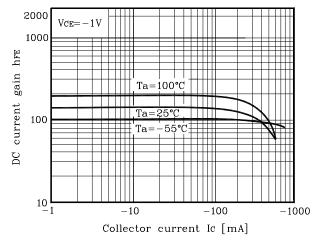


Fig. 6 h_{FE} - I_C



These AUK products are intended for usage in general electronic equipments (Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.