

2SA1979UF

PNP Silicon Transistor

Description

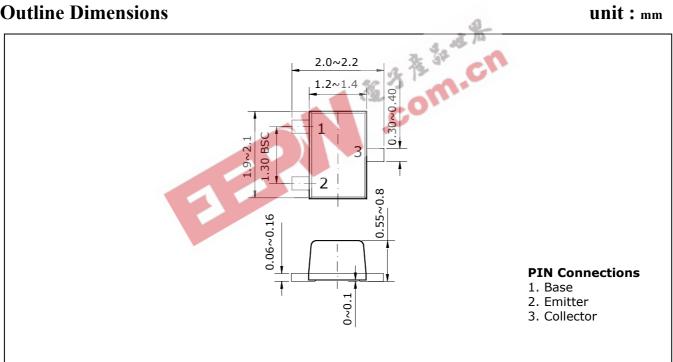
• Medium power amplifier

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 2SC5342UF

Ordering Information

Type NO.	Marking	Package Code		
2SA1979UF	A	SOT-323F		
Outline Dimensions	☐ : h _{FE} rank	unit :	mm	
	2.0~2.2	2 1 3 CN		



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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	-	ı	V
Emitter-Base breakdown voltage	BV_{EBO}	I_{E} =-10 μ A, I_{C} =0	-5	-	ı	V
Collector cut-off current	I_{CBO}	V_{CB} =-40V, I_{E} =0		-	-0.1	μΑ
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V$, $I_C = 0$	-	-	-0.1	μΑ
DC current gain	h _{FE} *	V_{CE} =-1V, I_{C} =-100mA	70	-	240	1
Collector-Emitter saturation voltage	$V_{CE(sat)}$	I _C =-100mA, I _B =-10mA	-	-	-0.25	V
Transistor frequency	f _T	V_{CE} =-6V, I_{C} =-20mA	-	200	ı	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

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Electrical Characteristic Curves



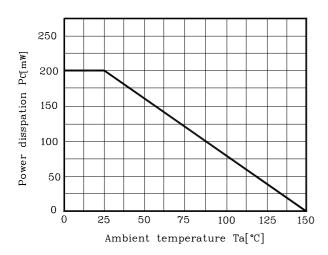


Fig. 2 $I_{C}\;$ - $\;V_{BE}$

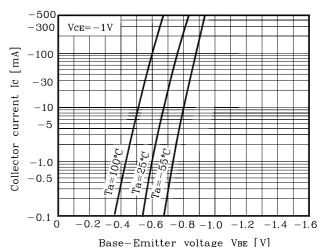


Fig. 3 I $_{\text{C}}\text{-}\ V_{\text{CE}}$

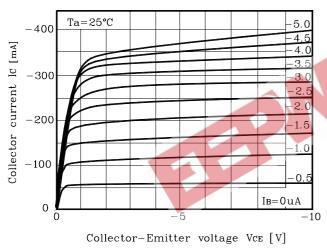


Fig. 5 h_{FE} - I_C

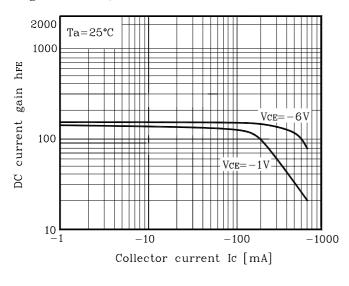


Fig. 4 $V_{CE(sat)}$ - I_{C}

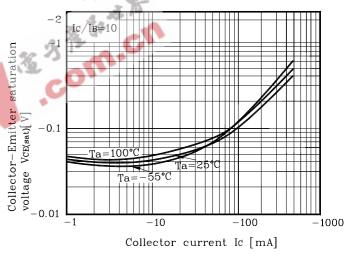
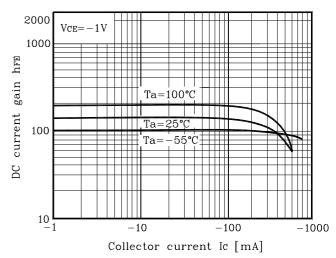


Fig. 6 h_{FE} - I_C



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