

2SA1979UF

PNP Silicon Transistor

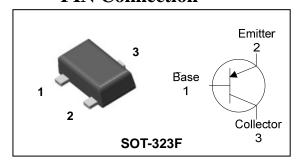
Description

• Medium power amplifier

Features

- Large collector current : I_C=-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342UF

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
2SA1979UF	<u>A</u> <u> </u>	SOT-323F

①Device Code ②hFE Rank ③Year&Week Code

Absolute Maximum Ratings

(Ta=25°C)

			(1 u 2c 0)
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-40	V
Collector-emitter voltage	$V_{\sf CEO}$	-32	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I _C	-500	mA
Collector power dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=-1mA$, $I_B=0$	-32	-	-	V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0	-	-	-0.1	μА
Emitter cut-off current	I _{EBO}	V_{EB} =-5V, I_C =0	-	-	-0.1	μА
DC current gain	*h _{FE}	V _{CE} =-1V, I _C =-100mA	70	-	240	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA	-	-	-0.25	V
Transition 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

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Electrical Characteristic Curves

Fig. 1 P_C - T_a

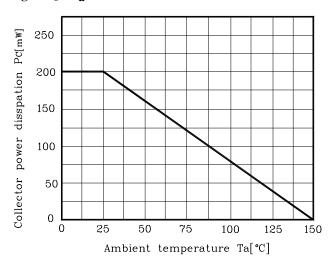


Fig. 2 I_{C} - V_{BE}

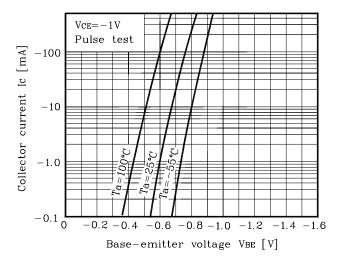


Fig. 3 I $_{\rm C}$ - $V_{\rm CE}$

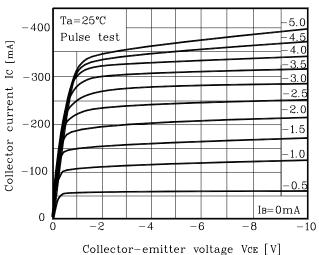


Fig. 4 $V_{\text{CE(sat)}}$ - I_{C}

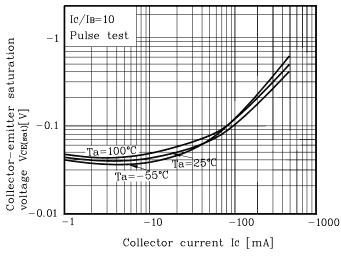


Fig. 5 h_{FE} - I_C

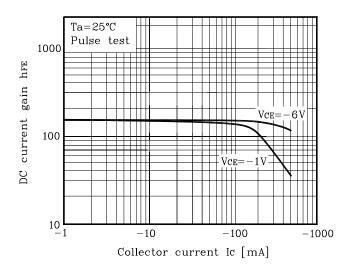
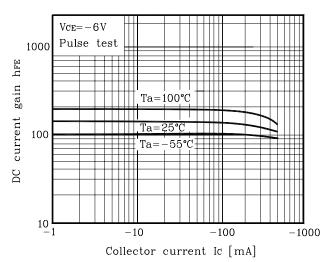
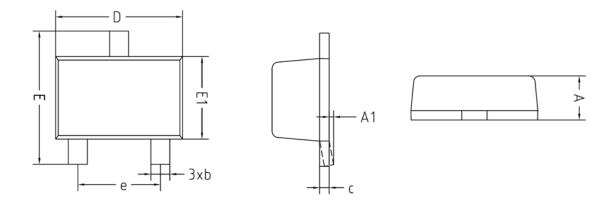


Fig. $6 h_{FE} - I_{C}$



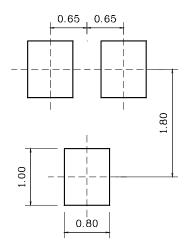
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Outline Dimension



SYMBOL	1	NOTE		
STIBOL	MINIMUM	NOMINAL	MAXIMUM	NOTE
Α	0.60	-	0.80	
A1	0.00	-	0.10	
Ь	0.30	-	0.40	
С	0.08	-	0.16	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.20	1.30	1.40	
е		1.30BS	C	

***Recommend PCB solder land [Unit: mm]**



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