

2SA1979U

PNP Silicon Transistor

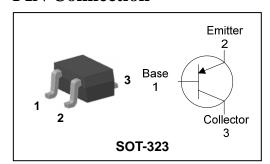
Description

• Medium power amplifier

Features

- Large collector current : I_{CMax}=-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342U

PIN Connection



Ordering Information

Type NO.	Marking	Package Code	
2SA1979U	<u>A</u> □ □ ① ② ③	SOT-323	
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①Device Code ②hFE Rank ③Year&Week Code

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	Tj	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

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

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = -100 \mu A, I_E = 0$	-40	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1mA$, $I_B=0$	-32	-	-	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	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	μΑ
DC current gain	h _{FE} *	$V_{CE} = -1V$, $I_{C} = -100$ mA	70	-	240	-
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	-	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

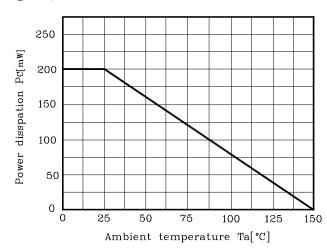


Fig. 2 $I_{\text{C}}\,$ - $\,V_{\text{BE}}$

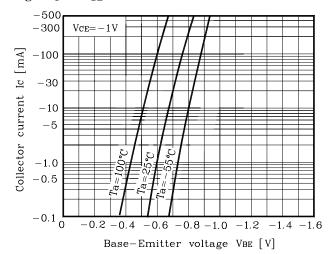


Fig. 31_C - V_{CE}

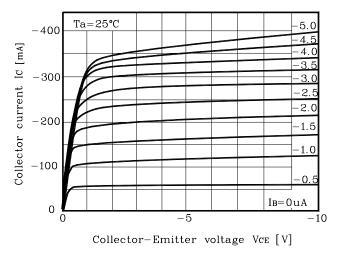


Fig. 4 $V_{CE(sat)}$ - I_C

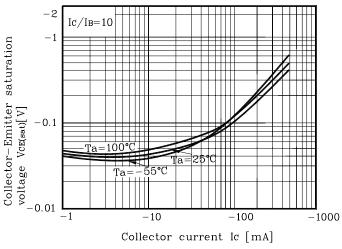


Fig. 5 $h_{FE}\,\,$ - $\,\,I_{C}$

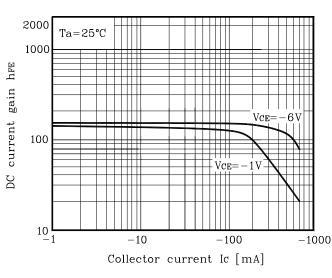
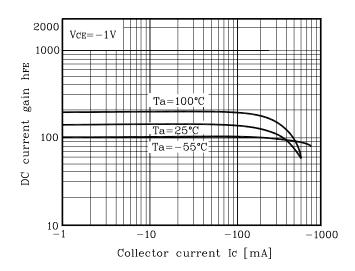
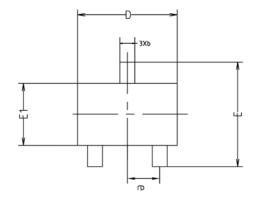


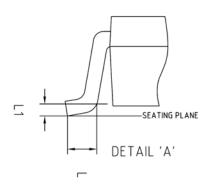
Fig. 6 h_{FE} - I_C

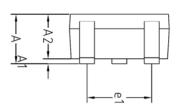


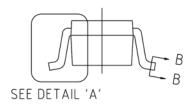
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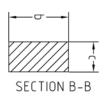
Outline Dimension





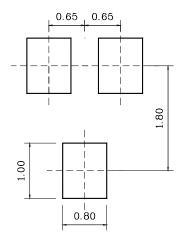






SYMBOL	MILLIMETERS			NOTE
3 THEOL	MINIMUM	NOMINAL	MAXIMUM	NUTE
Α	0.90	-	1.25	
A1	0.00	-	0.10	
A2	0.85	0.90	0.95	
Ь	0.30	-	0.40	
С	0.10	-	0.25	
D	1.90	2.00	2.10	
Ε	1.95	2.10	2.25	
E1	1.15	1.25	1.35	
е	0.65BSC			
e1	1.20	-	1.40	
L	0.10	-	-	
L1	0.12BSC			

*Recommend PCB solder land [Unit: mm]



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