

2SA1979S

PNP Silicon Transistor

MEDIUM POWER AMPLIFIER

Features

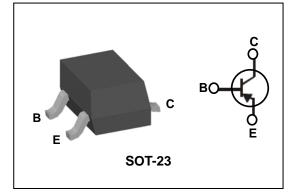
- Large collector current : I_{CMax} =-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342S

Ordering Information

Type No.	Marking	Package Code
2SA1979S	<u>AA</u> <u> </u>	SOT-23

①Device Code ②hFE Rank ③Year&Week Code

PIN Connection



Absolute Maximum Ratings

(Ta=25°C)

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}	350	mW
Junction temperature	Tj	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

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

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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	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	-
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

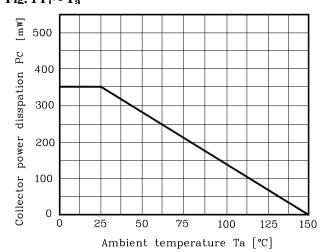


Fig. 2 I_C - V_{BE}

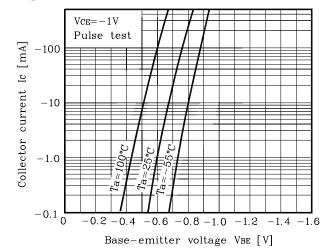
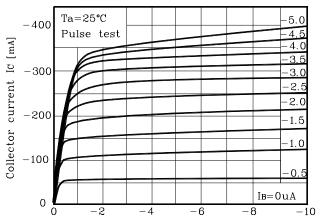


Fig. 3 I $_{\rm C}$ - $V_{\rm CE}$



Collector-emitter voltage Vce [V]

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

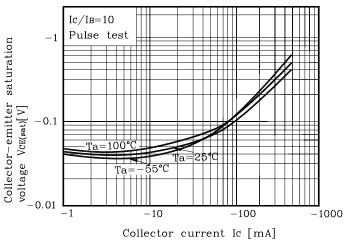


Fig. 5 h_{FE} - I_C

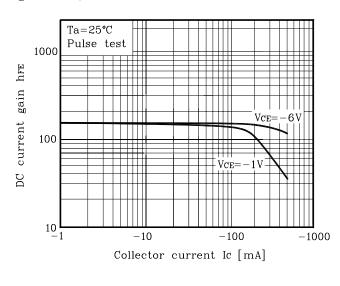
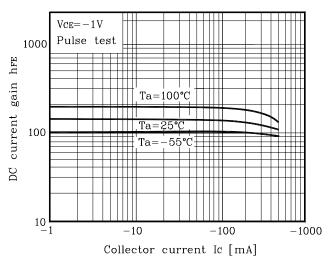


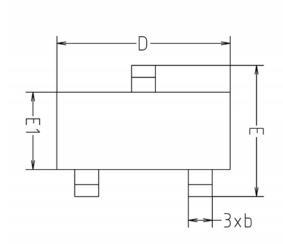
Fig. 6 h_{FE} - I_C

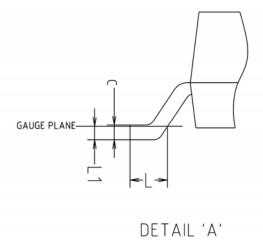


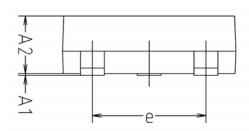
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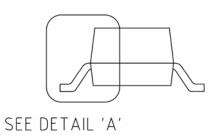
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Outline Dimension









SYMBOL	MILLIMETERS			NOTE
STITIBOL	MINIMUM	NOMINAL	MAXIMUM	NOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Ε	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	-	-	
L1		0.12BSC		

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