



Description

• Medium power amplifier

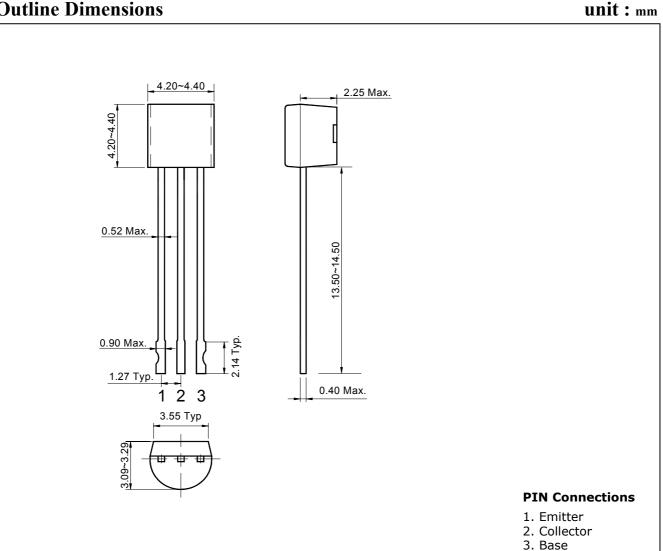
Features

- \bullet Large collector current : $I_C = -500 \text{mA}$
- Low collector saturation voltage enabling low-voltage operation : $V_{CE(sat)} = -0.25 \text{ Max}$.
- Complementary pair with 2SC5342N

Ordering Information

Type NO.	Marking	Package Code	:	
2SA1979N	A1979	TO-92N		

Outline Dimensions



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Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	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 power dissipation	P_{C}	400	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	I_C =-1mA, I_B =0	-32	-	1	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	μА
DC current gain	h _{FE} *	V _{CE} =-1V, I _C =-100mA	70	-	240	ı
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-100mA, I _B =-10mA	-	-	-0.25	V
Base-emitter voltage	V_{BE}	V _{CE} =-1V, I _C =-100mA	-	-0.75	-1.0	V
Transition frequency	f _T	V _{CE} =-6V, I _C =-20mA	-	200	1	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

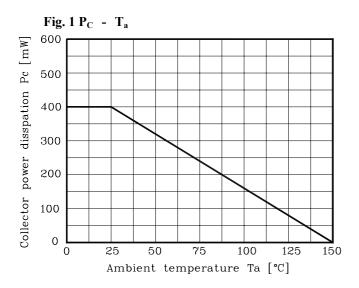


Fig. 3 I $_{\text{C}}\text{-}\ V_{\text{CE}}$

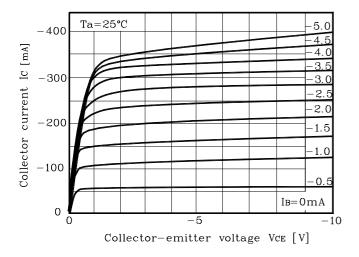


Fig. 5 $h_{FE}\$ - $\ I_{C}$

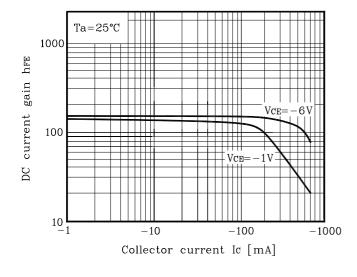


Fig. 2 I_C - V_{BE}

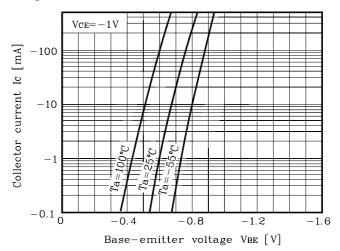


Fig. 4 $V_{CE(sat)}$ - I_C

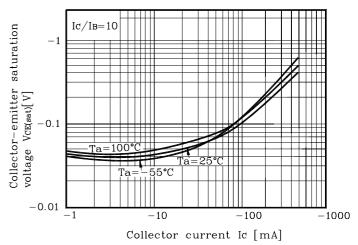
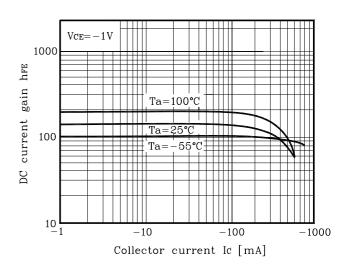


Fig. 6 h_{FE} - I_C



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