

Description

• Audio power amplifier application

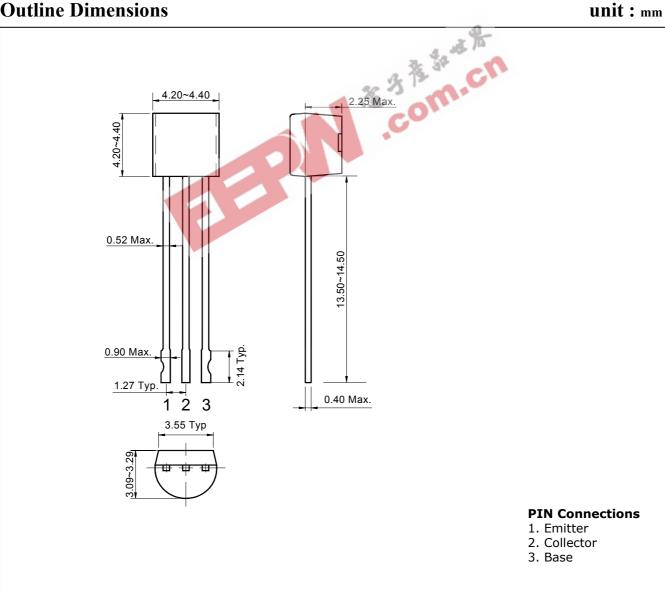
Features

- High h_{FE} : $h_{FE} = 100 \sim 320$
- Complementary pair with 2SC5344N

Ordering Information

Type NO.	Marking	Package Code	
2SA1981N	A1981	TO-92N	

Outline Dimensions



2SA1981N

Absolute Maximum Ratings

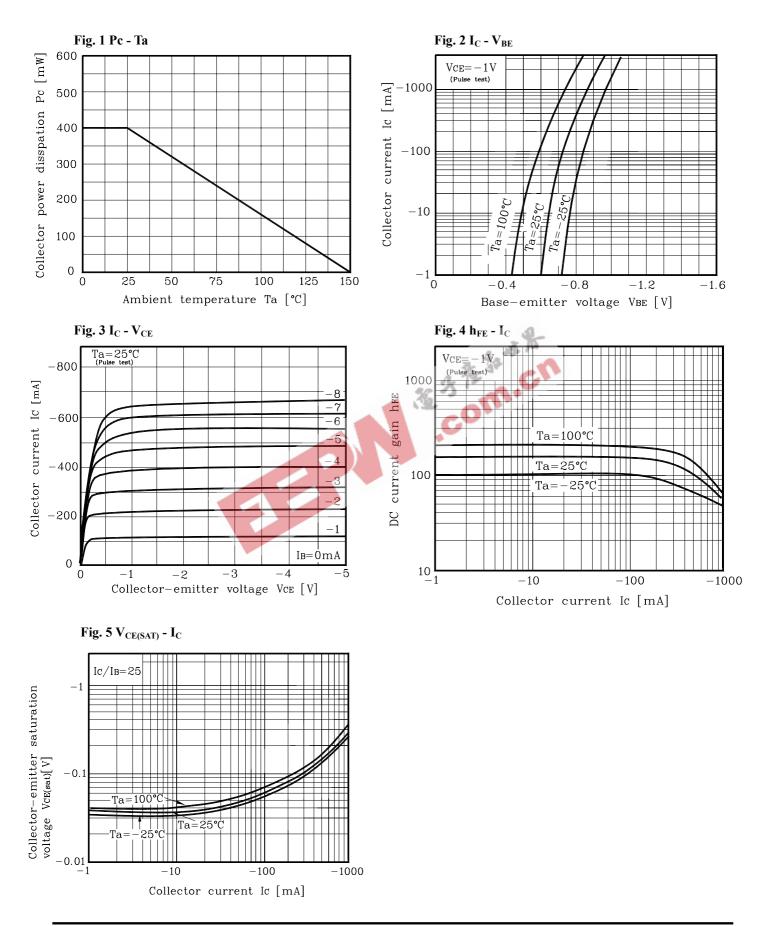
Absolute Maximum Ratings			(Ta=25°C)	
Characteristic	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-35	V	
Collector-emitter voltage	V _{CEO}	-30	V	
Emitter-base voltage	V_{EBO}	-5	V	
Collector current	I _C	-800	mA	
Collector power dissipation	P _C	400	mW	
Junction temperature	۲յ	150	°C	
Storage temperature range	T _{stg}	-55~150	°C	

Electrical Characteristics

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	-30	-	-	V
Collector cut-off current	I_{CBO}	V _{CB} =-35V, I _E =0	-	-	-0.1	μA
Emitter cut-off current	I_{EBO}	V _{EB} =-5V, I _C =0	-	-	-0.1	μA
DC current gain	h _{FE} *	V _{CE} =-1V, I _C =-100mA	100	-	320	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-500mA, I _B =-20mA	<u> </u>	-	-0.5	V
Base-emitter voltage	V_{BE}	V_{CE} =-1V, I _C =-100mA	-	-0.73	-0.95	V
Transition frequency	f_{T}	V_{CE} =-5V, I _C =-10mA	-	200	-	MHz
Collector output capacitance	Cob	V_{CB} =-10V, I_E =0, f=1MHz	-	19	-	pF
* : h _{FE} rank / O : 100~200, Y : 160~320						

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Electrical Characteristic Curves



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