

Description

• General small signal amplifier

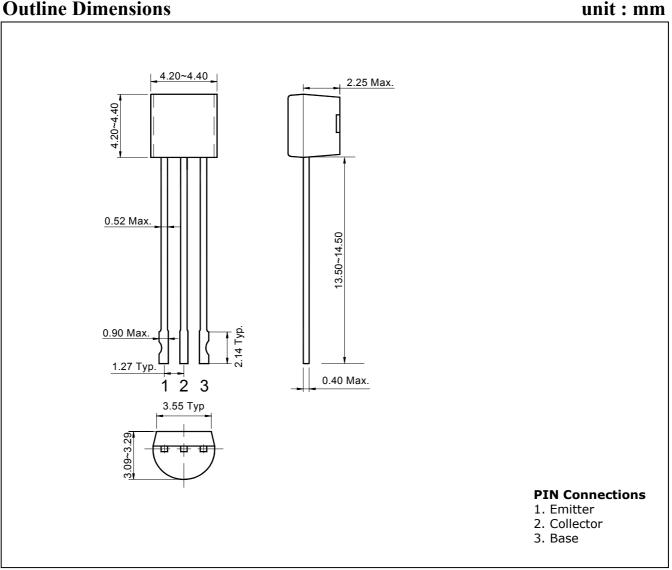
Features

- Low collector saturation voltage : $V_{CE(sat)}$ =-0.3V(Max.) Low output capacitance : C_{ob} =4pF(Typ.)
- Complementary pair with 2SC5343N

Ordering Information

Type NO.	Marking	Package Code	
2SA1980N	A1980	TO-92N	

Outline Dimensions



2SA1980N

(Ta=25°C)

Absolute Maximum Ratings

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-150	mA
Collector power dissipation	P _C	400	mW
Junction temperature	Tյ	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	-50	-	-	V
Collector cut-off current	I_{CBO}	V _{CB} =-50V, I _E =0	-	-	-0.1	μA
Emitter cut-off current	\mathbf{I}_{EBO}	V _{EB} =-5V, I _C =0	-	-	-0.1	μA
DC current gain	${\sf h}_{\sf FE}^{*}$	V_{CE} =-6V, I_{C} =-2mA	70	-	700	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_{C} =-100mA, I_{B} =-10mA	-	-	-0.3	V
Base-emitter voltage	V_{BE}	V_{CE} =-6V, I_C =-2mA	-	-0.67	-0.9	V
Transition frequency	f_{T}	V_{CE} =-10V, I_{C} =-10mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f=1MHz	-	4	-	pF

*: h_{FE} rank / O : 70~140, Y : 120~240, G : 200~400, L : 300~700.

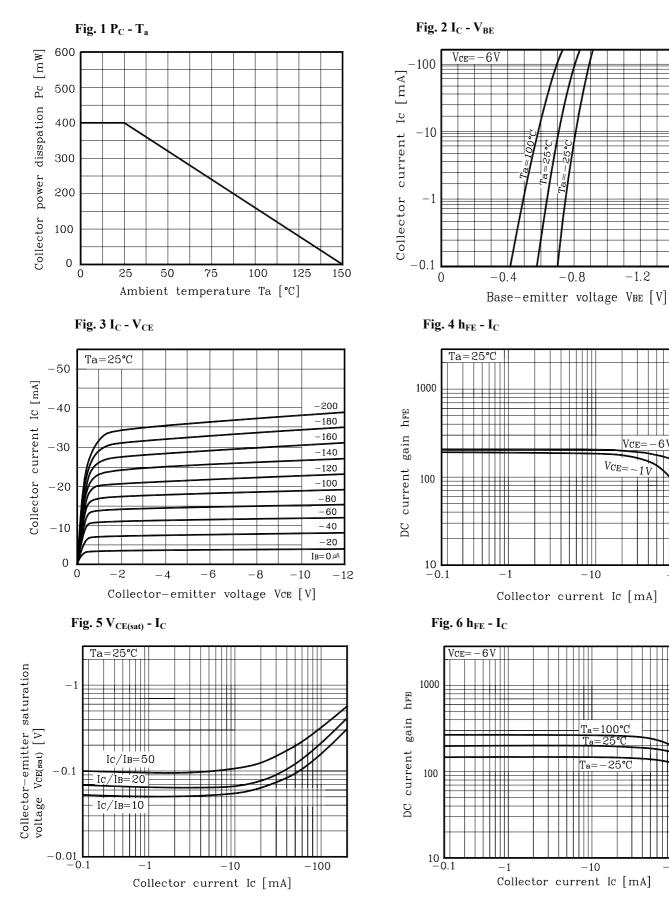
2SA1980N

-1.6

6V

-100

Electrical Characteristic Curves



-100

2SA1980N

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