

STS1980N

PNP Silicon Transistor

Description

• General small signal amplifier

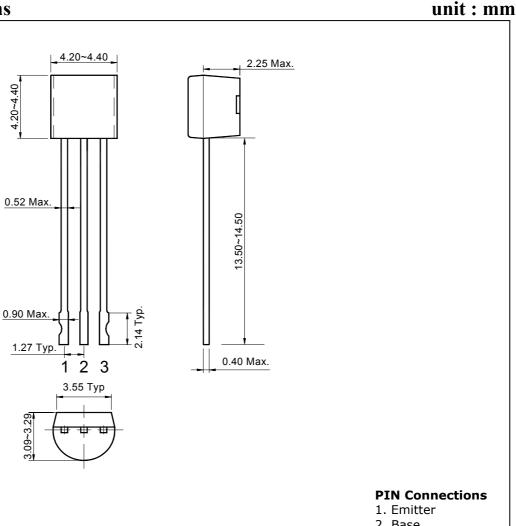
Features

- Low collector saturation voltage: V_{CE(sat)}=-0.3V(Max.)
- Low output capacitance : C_{ob}=4pF(Typ.)
- Complementary pair with STS5343N

Ordering Information

Type NO.	Marking	Package Code		
STS1980N	STS1980	TO-92N		

Outline Dimensions



- 2. Base
- 3. Collector

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STS1980N

Absolute Maximum Ratings

(Ta=25°C)

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	T _J	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-50	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-50V, I_{E} =0	-	1	-0.1	μА
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_C =0	-	-	-0.1	μΑ
DC current gain	h _{FE}	V_{CE} =-6V, I_{C} =-2mA	120	-	240	-
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} =-1mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	4	7	pF

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Electrical Characteristic Curves

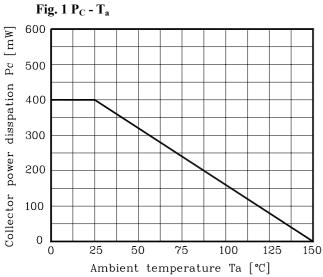
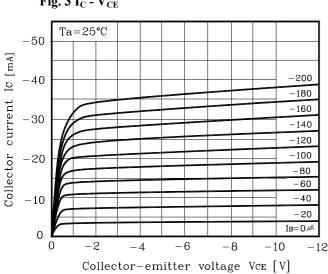
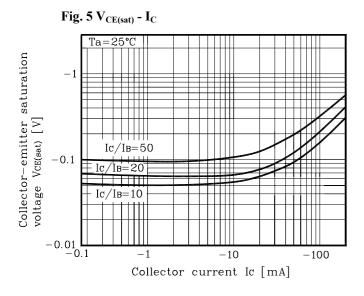
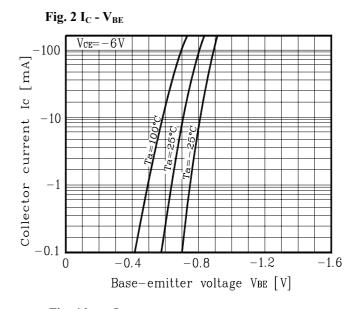
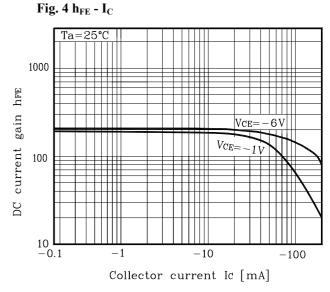


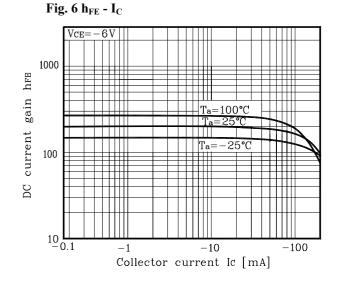
Fig. 3 I_C - V_{CE} Ta=25°C -50











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