

STA8550SF

PNP Silicon Transistor

Descriptions

- High current application
- Radio in class B push-pull operation

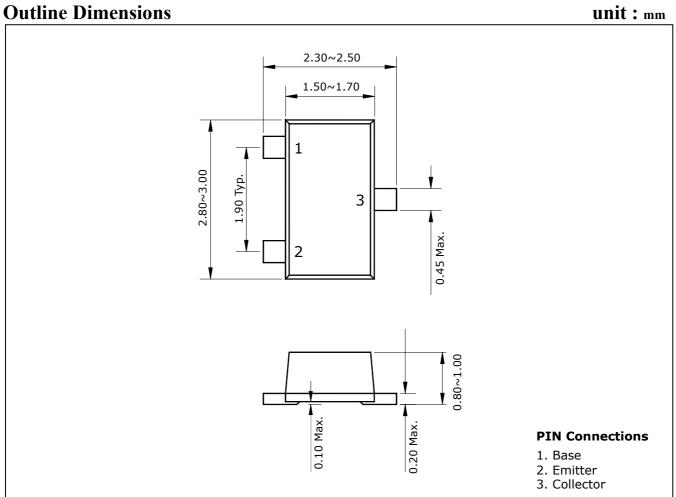
Feature

• Complementary pair with STC8050SF

Ordering Information

Type NO.	Marking	Package Code
STA8550SF	88□	SOT-23F
	□.h	

 \Box :h_{FE} rank



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-30	V
Collector-emitter voltage	V_{CEO}	-25	V
Emitter-base voltage	V_{EBO}	-6	V
Collector current	I_{C}	-800	mA
Collector power dissipation	P _C *	350	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

^{* :} Package mounted on 99.5% Alumina 10×8×0.6mm

Electrical Characteristics

(Ta=25°C)

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Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-25	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-30V, I_{E} =0	-	-	-50	nA
Emitter cut-off current	I_{EBO}	V_{EB} =-6V, I_{C} =0	-	1	-50	nA
DC current gain	h _{FE} *	V_{CE} =-1V, I_{C} =-50mA	85	-	300	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-500mA, I _B =-50mA	-	1	-0.5	V
Base-emitter voltage	V_{BE}	V_{CE} =-1V, I_{C} =-500mA	-	-0.85	-1.2	V
Transition frequency	f_T	V_{CE} =-5V, I_{C} =-10mA	-	200	1	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f=1MHz	-	19	-	pF

^{* :} h_{FE} Rank / B : 85~160, C : 120~200, D : 160~300

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Electrical Characteristic Curves



Power disspation Pc [mw] 200 100 25 50 75 100 150

Ambient temperature Ta [°C]

Fig. 3 I_C - V_{CE}

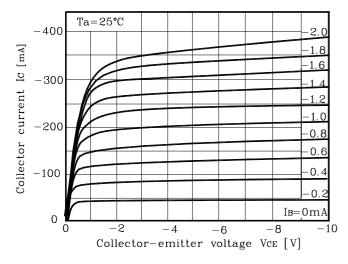


Fig. 5 h_{FE} - I_C

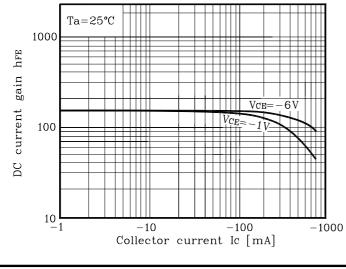


Fig. 2 I_C - V_{BE}

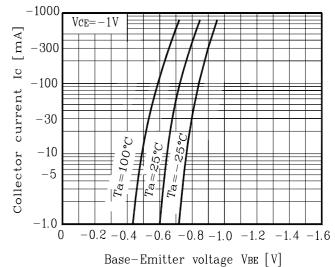


Fig. 4 $V_{CE(SAT)}$ - I_C

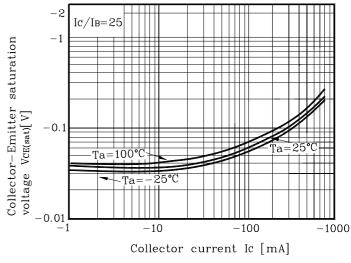
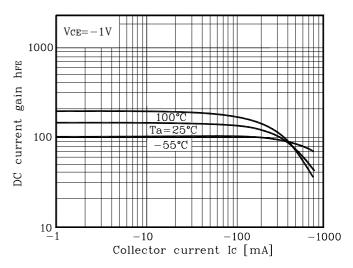


Fig. 6 h_{FE} - I_C



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