

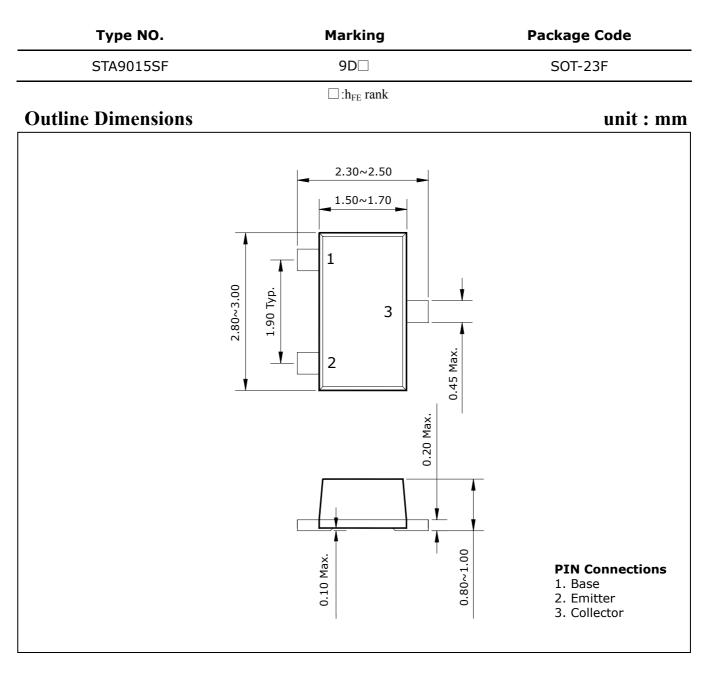
Description

- General purpose application.
- Switching application.

Features

- Excellent hre linearity : hre(I_C =0.1mA) / hre(I_C =2mA) = 0.95(Typ.)
- Complementary pair with STC9014SF

Ordering Information



STA9015SF

Absolute Maximum Ratings

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 *	350	mW
Junction temperature	Tı	150	°C
Storage temperature range	T _{stg}	-55~150	°C

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

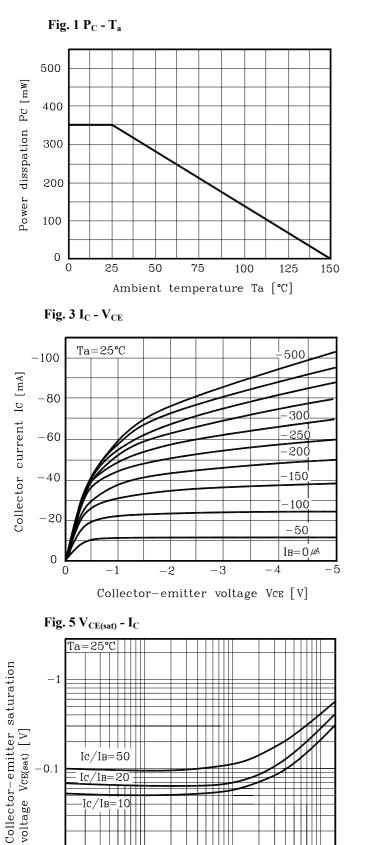
Electrical Characteristics

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	-	-	-50	nA
Emitter cut-off current	\mathbf{I}_{EBO}	V _{EB} =-5V, I _C =0	-	-	-100	nA
DC current gain	${\sf h}_{\sf FE}^{*}$	V_{CE} =-5V, I_{C} =-1mA	100	-	1000	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_{C} =-100mA, I_{B} =-10mA	-	-0.1	-0.3	V
Base-emitter voltage	V_{BE}	V_{CE} =-5V, I _C =-1mA	-	-0.63	-0.8	V
Transition frequency	f_{T}	V_{CE} =-10V, I_C =-1mA	-	130	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f=1MHz	-	4	-	pF

*: h_{FE} rank / B : 100~300, C : 200~600, D : 400~1000.

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Electrical Characteristic Curves

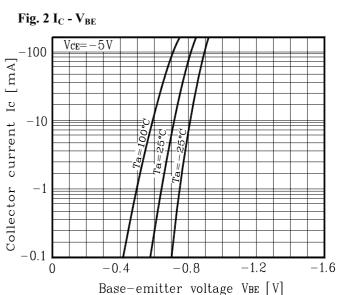


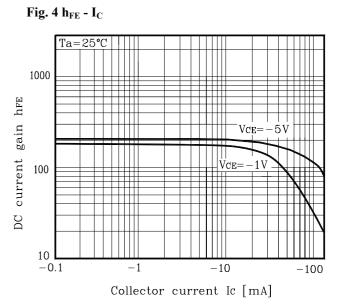
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Collector current Ic [mA]

-0.01 L

-1





-100

STA9015SF

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