

STN2907ASF

PNP Silicon Transistor

Descriptions

- General purpose application
- Switching application

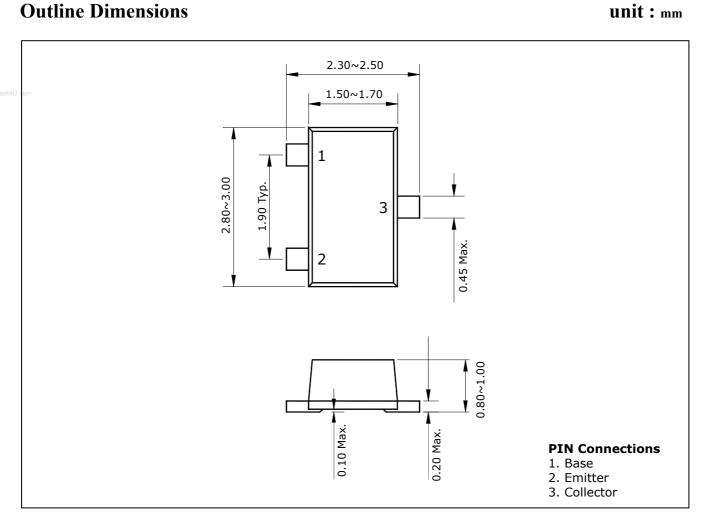
Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2222ASF

Ordering Information

Type NO.	Marking	Package Code	
STN2907ASF	WA	SOT-23F	

Outline Dimensions



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Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-60	V
Collector-Emitter voltage	V_{CEO}	-50	V
Emitter-Base voltage	V_{EBO}	-5	V
Collector current	I_{C}	-600	mA
Collector dissipation	P _C *	350	mW
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	-55~150	°C

^{* :} Package mounted on 99.5% Alumina 10×8×0.1mm.

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = -10 \mu A, I_E = 0$	-60	1	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-10$ mA, $I_B=0$	-50	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-60V, I_{E} =0	-	-	-10	nA
DC current gain	h _{FE}	V_{CE} =-10V, I_{C} =-10mA	75	1	1	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	I _C =-150mA, I _B =-15mA	-	-	-0.4	V
Transition frequency	f _T	V _{CE} =-20V, I _C =-20mA	250	-	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	6.0	-	pF

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Electrical Characteristic Curves



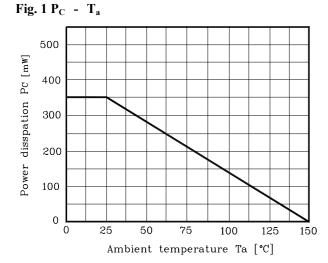


Fig. 2 I_C - V_{BE}

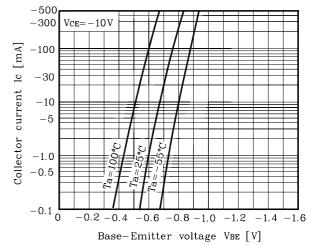


Fig. 3 I $_{\text{C}}$ - $\,\,V_{\text{CE}}$

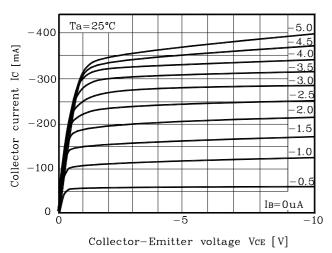


Fig. 4 $V_{CE(sat)}$ - I_C

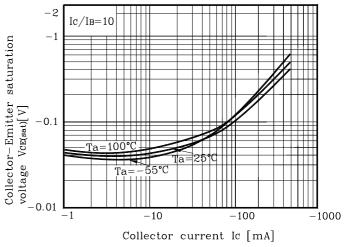


Fig. 5 h_{FE} - I_{C}

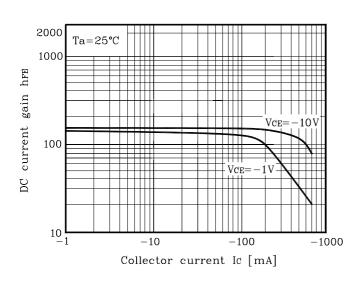
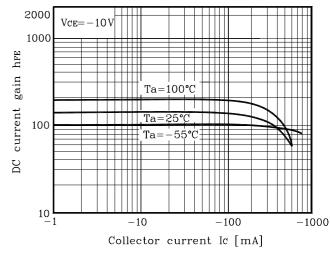


Fig. 6 h_{FE} - I_C



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