



STN2907A

PNP Silicon Transistor

Descriptions

- General purpose application
- Switching application

Features

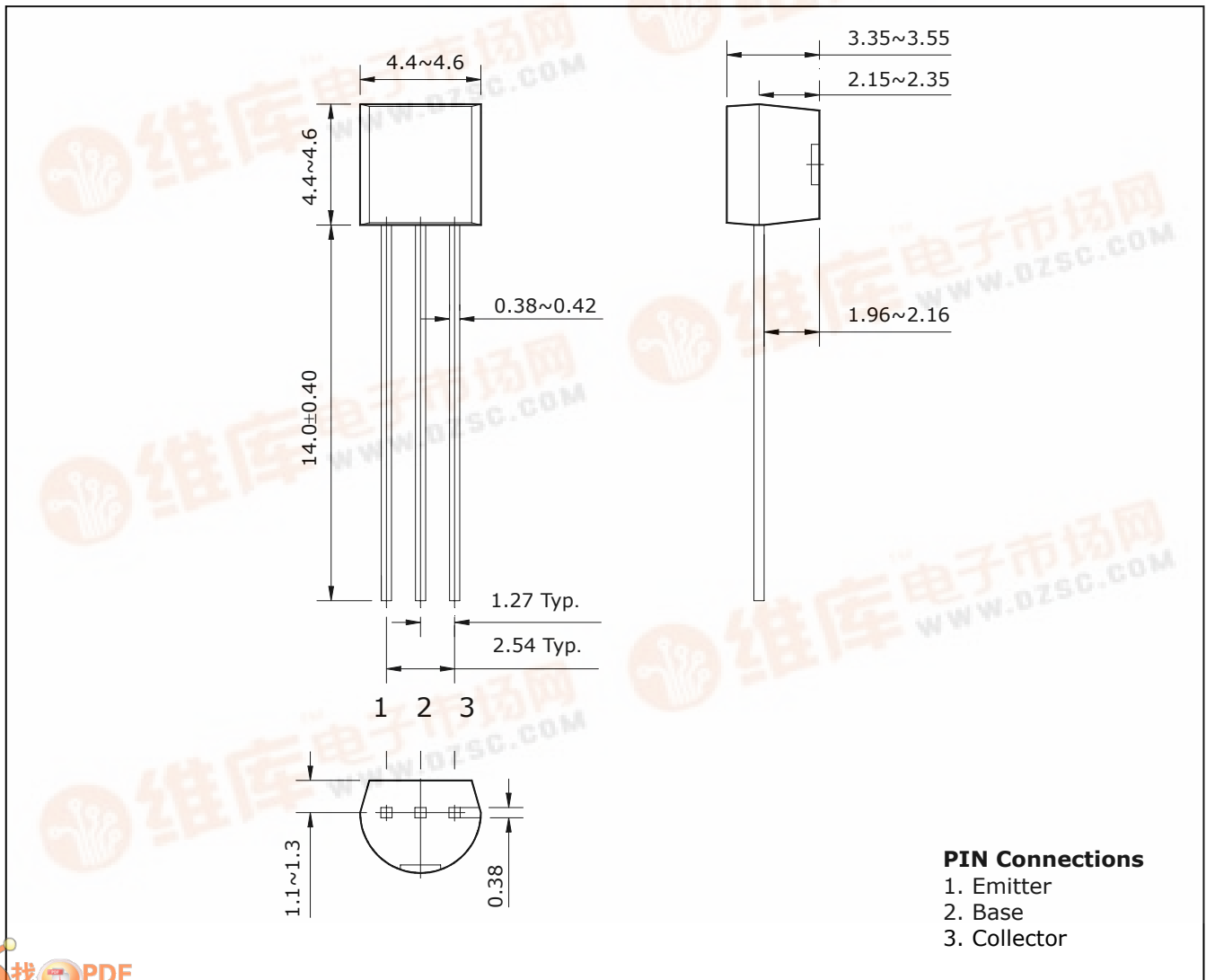
- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2222A

Ordering Information

Type NO.	Marking	Package Code
STN2907A	STN2907A	TO-92

Outline Dimensions

unit : mm



STN2907A

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	625	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I _C =-10μA, I _E =0	-60	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	I _C =-1mA, I _B =0	-50	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I _E =-10μA, I _C =0	-5	-	-	V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0	-	-	-10	nA
DC current gain	h _{FE}	V _{CE} =-10V, I _C =-10mA	100	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =-150mA, I _B =-15mA	-	-	-0.4	V
Transistor frequency	f _T	V _{CE} =-20V, I _C =-20mA	200	-	-	MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	6.0	-	pF

Electrical Characteristic Curves

Fig. 1 P_C - T_a

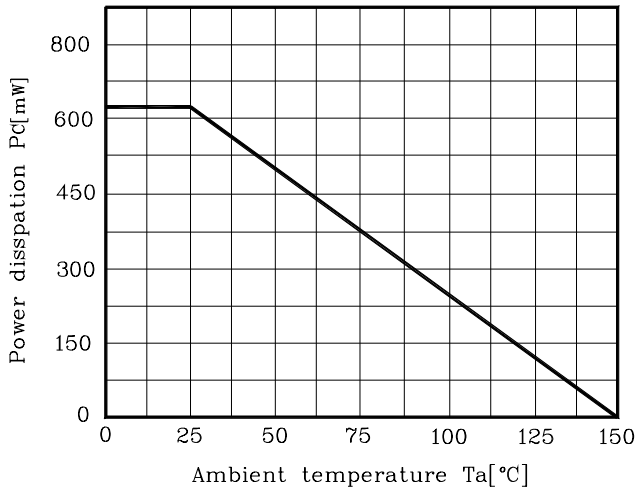


Fig. 2 I_C - V_{BE}

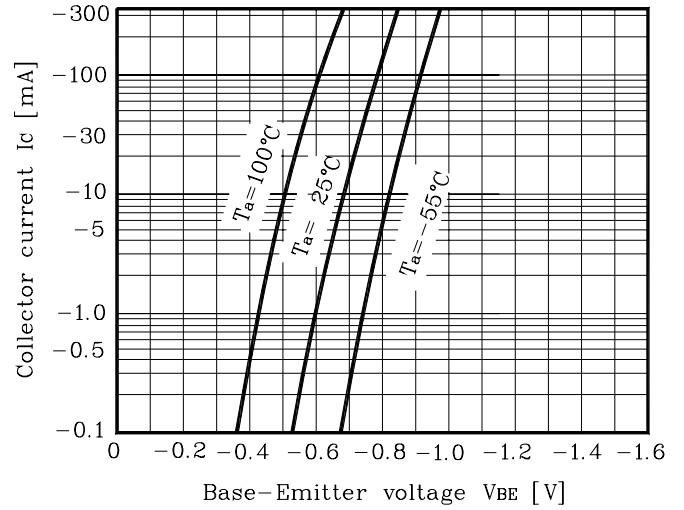


Fig. 3 I_C - V_{CE}

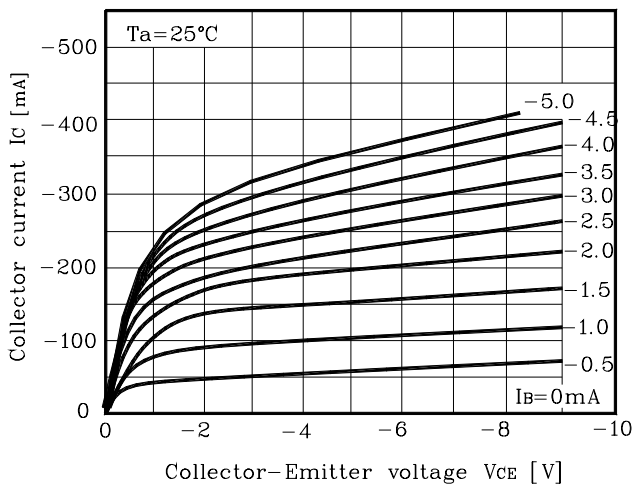


Fig. 4 $V_{CE(sat)}$ - I_C

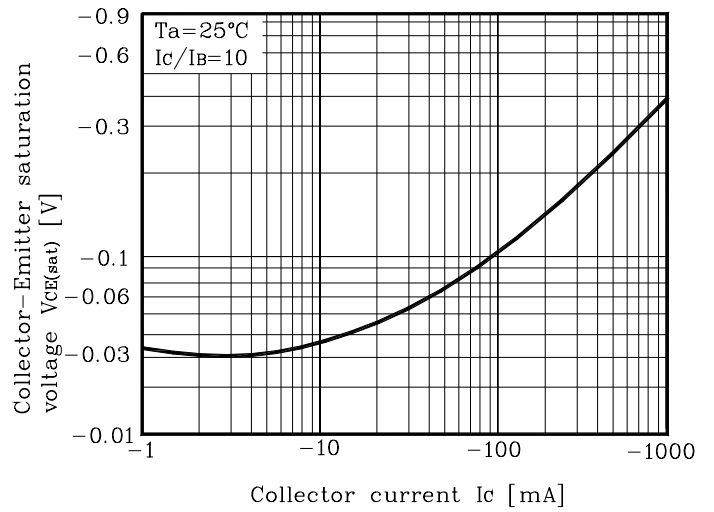


Fig. 5 h_{FE} - I_C

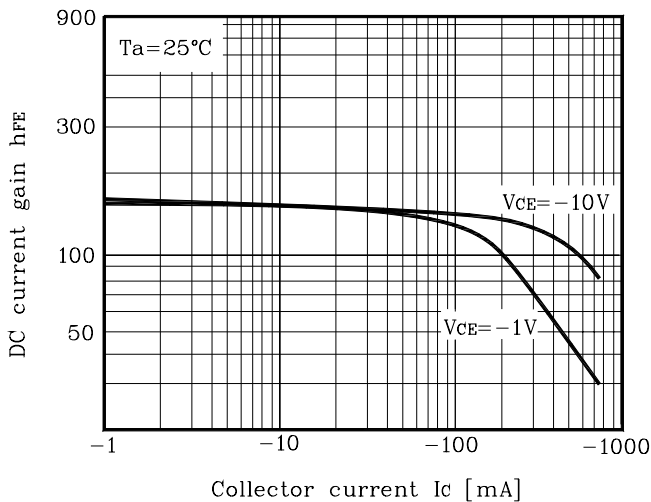
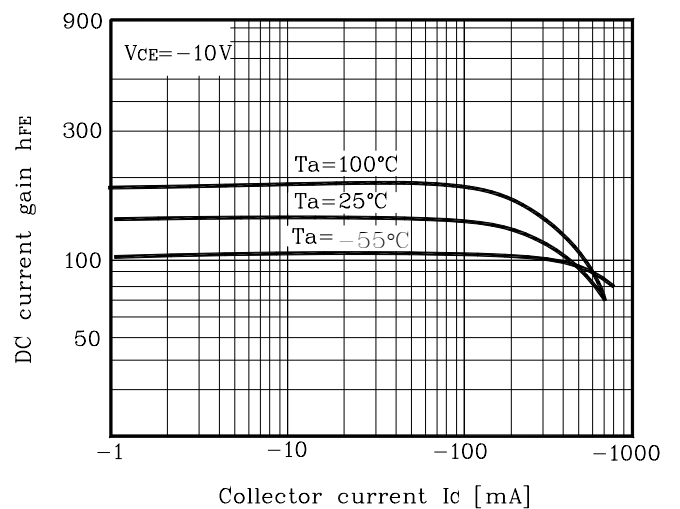


Fig. 6 h_{FE} - I_C



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