

STN2907A

PNP Silicon Transistor

Descriptions

- General purpose application
- Switching application

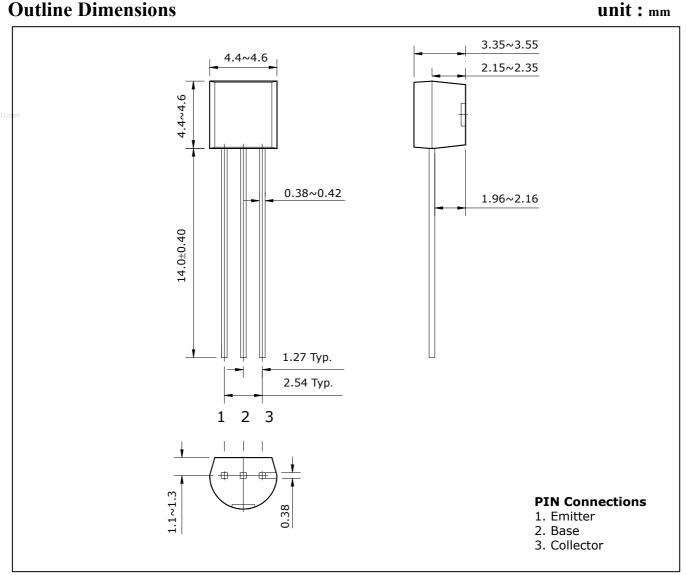
Features

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

Ordering Information

Type NO. Marking		Package Code		
STN2907A	STN2907A	TO-92		

Outline Dimensions



KST-9067-002 1 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}	$I_C = -10 \mu A, I_E = 0$	-60	1	-	V
Collector-Emitter breakdown voltage	BV_CEO	$I_C=-1$ mA, $I_B=0$	-50	ı	ı	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	ı	ı	V
Collector cut-off current	I_{CBO}	V_{CB} =-50V, I_{E} =0	-	1	-10	nA
DC current gain	h _{FE}	V_{CE} =-10V, I_{C} =-10mA	100	ı	ı	-
Collector-Emitter saturation voltage	$V_{\text{CE(sat)}}$	I_C =-150mA, I_B =-15mA	-	ı	-0.4	V
Transistor frequency	f_T	V_{CE} =-20V, I_{C} =-20mA	200	1	-	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. 1 P_C-T_a

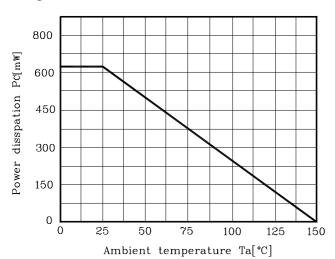


Fig. 3 I_{C} - V_{CE}

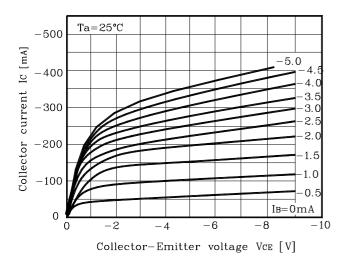


Fig. 5 h_{FE}-I_C

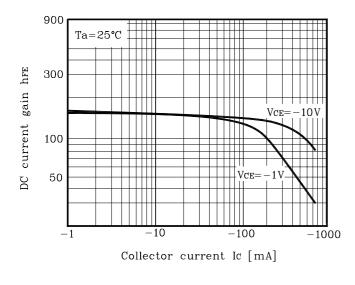


Fig. 2 $I_{\text{C-}}V_{\text{BE}}$

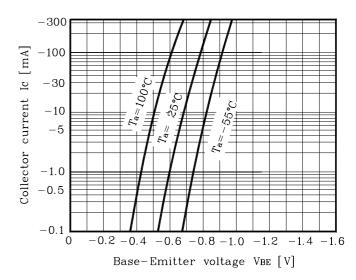


Fig. 4 $V_{\text{CE(sat)-}}I_{\text{C}}$

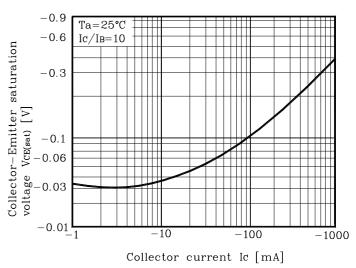
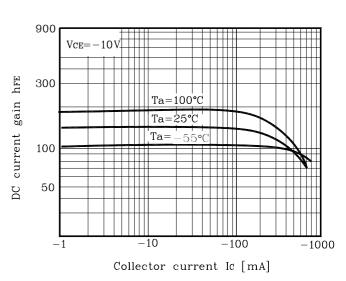


Fig. 6 h_{FE}-I_C



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