

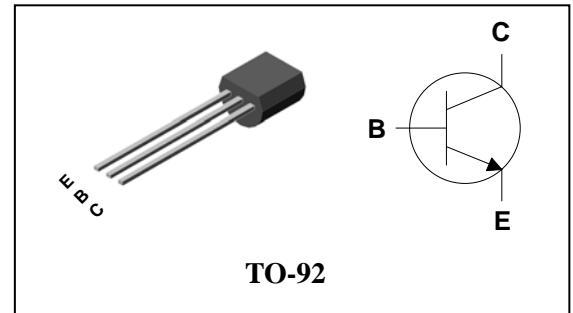
Descriptions

- General purpose application
- Switching application

Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2907A

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
STN2222A	STN2222A□	TO-92

□ : Year & Week Code

Absolute maximum ratings

T_a=25°C

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CB0}	75	V
Collector-Emitter voltage	V _{CEO}	40	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	0.6	A
	I _{CP} *	1.2	A
Collector dissipation	P _C	625	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

* : Single pulse, tp= 300us

Electrical Characteristics

T_a=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CB0}	I _C =10μA, I _E =0	75	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	I _C =10mA, I _B =0	40	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I _E =10μA, I _C =0	5	-	-	V
Collector cut-off current	I _{CB0}	V _{CB} =60V, I _E =0	-	-	10	nA
DC current gain	h _{FE}	V _{CE} =10V, I _C =10mA	75	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =150mA, I _B =15mA	-	-	0.5	V
Transistor 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

Electrical Characteristic Curves

Fig. 1 P_c - T_a

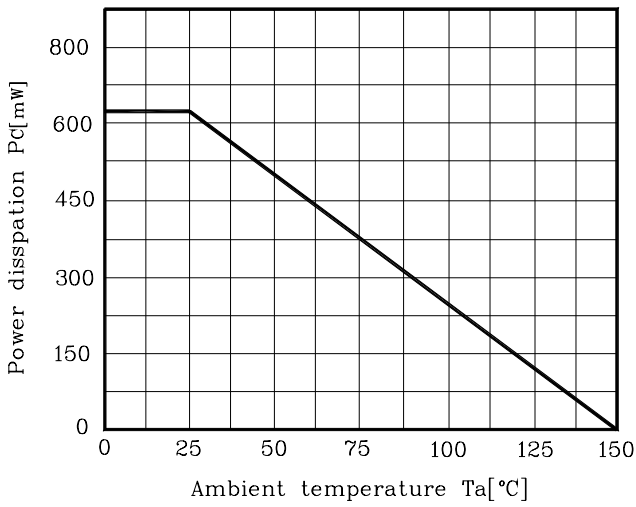


Fig. 2 I_c - V_{BE}

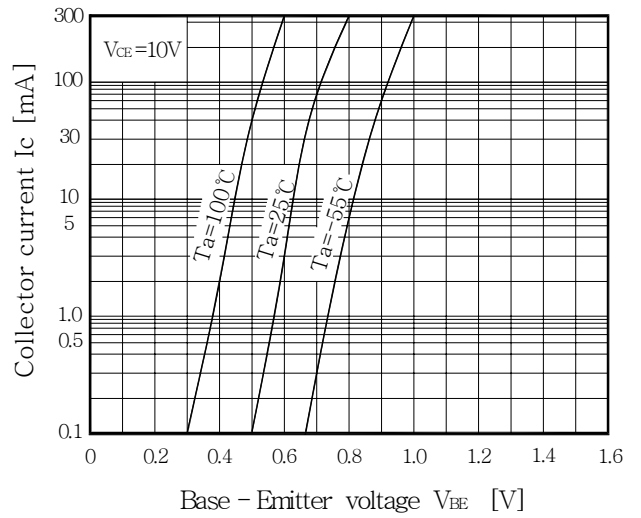


Fig. 3 I_c - V_{CE}

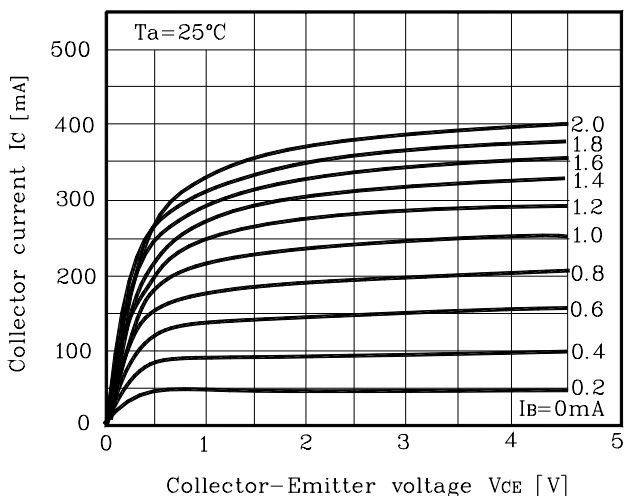


Fig. 4 $V_{CE(sat)}$ - I_c

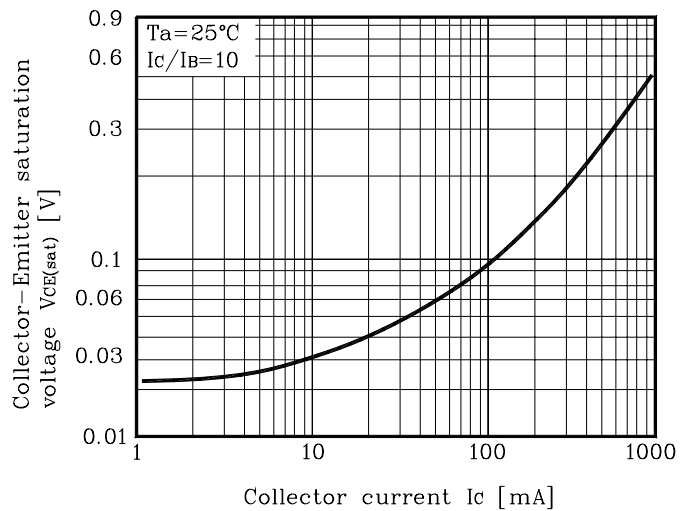


Fig. 5 h_{FE} - I_c

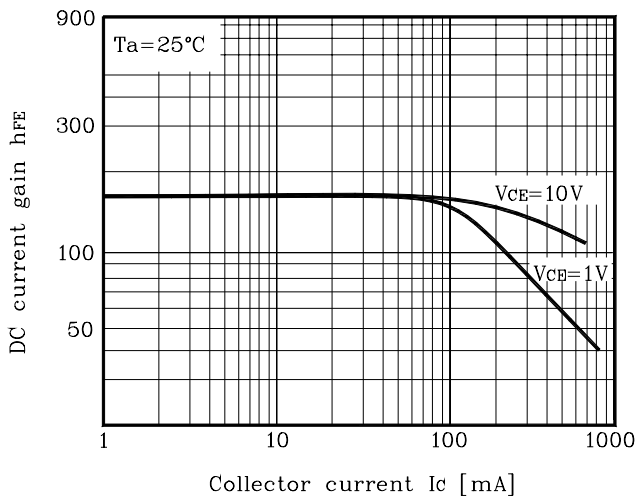
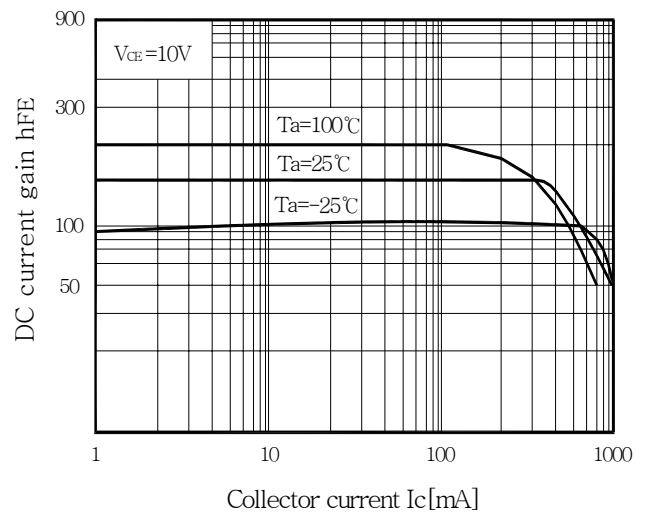


Fig. 6 h_{FE} - I_c



Outline Dimension



SYMBOL	MILLMETERS(mm)		
	MINIMUM	NOMINAL	MAXIMUM
A	3.40	3.50	3.66
A1	2.46	2.51	2.59
b	0.39	0.44	0.53
b1	0.39	—	0.63
c	0.35	0.42	0.47
D	4.48	4.60	4.70
E	4.48	4.60	4.70
e	1.17	1.27	1.37
L	13.70	14.00	14.77
L1	1.55	1.70	2.15

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