

STC2222N

NPN Silicon Transistor

Descriptions

- General purpose application
- Switching application

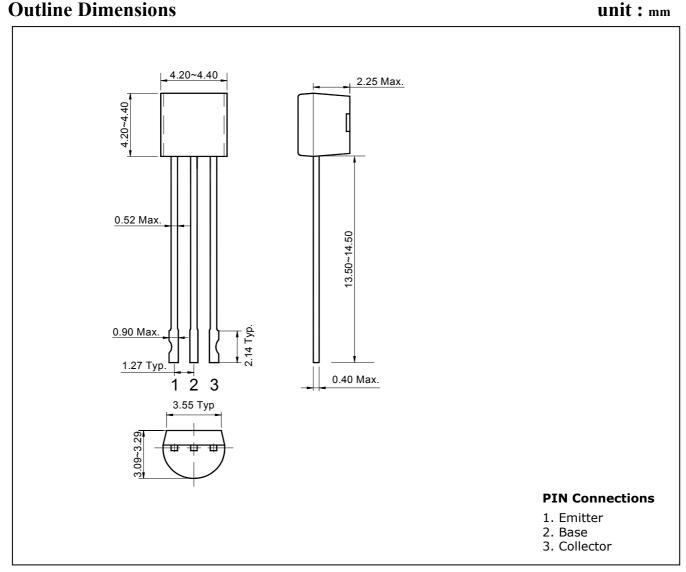
Features

- \bullet Large collector current : I_C =600mA
- Low collector saturation voltage : V_{CE(sat)}=0.4V(MAX.)
- Complementary pair with STA2907N

Ordering Information

Type NO.	Marking	Package Code		
STC2222N	STC2222	TO-92N		

Outline Dimensions



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Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	60	V	
Collector-emitter voltage	V _{CEO}	30	V	
Emitter-base voltage	V_{EBO}	5	V	
Collector current	I_{C}	600	mA	
Collector power dissipation	P _C	400	mW	
Junction temperature	T _J	150	°C	
Storage temperature range	T_{stg}	-55~150	°C	

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	30	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = 60V, I_{E} = 0$	-	1	50	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	50	nA
DC current gain	h _{FE}	V _{CE} =10V, I _C =10mA	75	-	-	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=150$ mA, $I_B=15$ mA	-	-	0.4	V
Base-emitter voltage	V_{BE}	V _{CE} =10V, I _C =10mA		0.65	0.85	V
Transition frequency	f_T	V_{CE} =10V, I_{C} =10mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =10V, I_E =0, f=1MHz	-	6.0	ı	pF

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Electrical Characteristic Curves

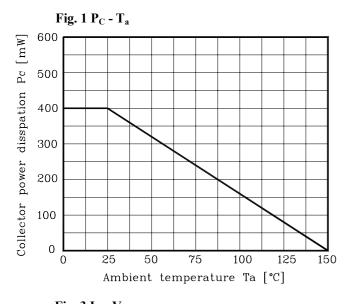


Fig. 2 I_C - V_{BE} 100

VCB=10V

(Polar Lept)

100

0.1

0.1

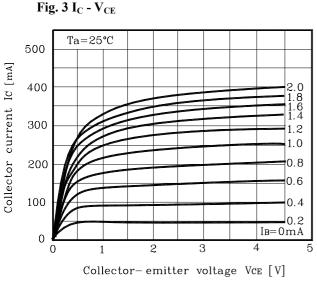
0.4

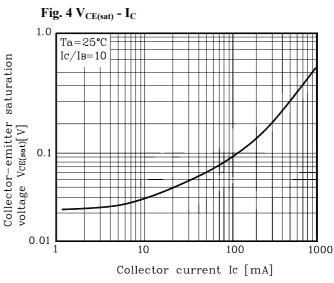
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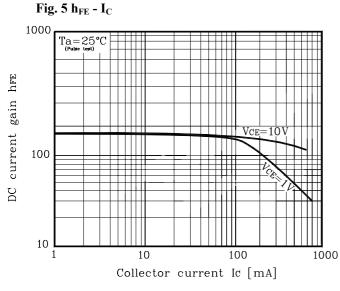
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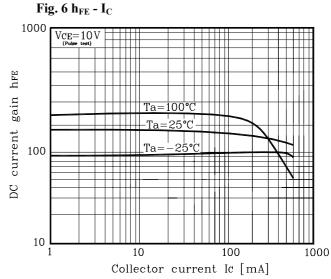
1.6

Base-emitter voltage VBE [V]









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