

STC2222AN

NPN Silicon Transistor

Descriptions

- General purpose application
- Switching application

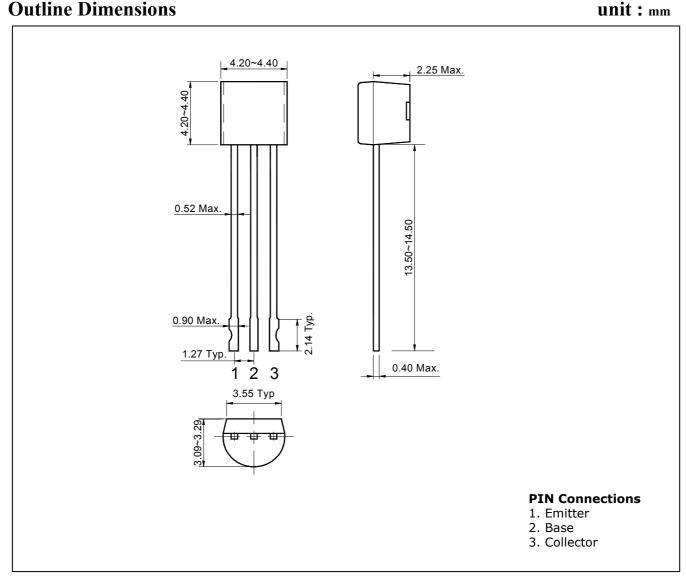
Features

- \bullet Large collector current : $I_C = 600 mA$
- Low collector saturation voltage
- Complementary pair with STA2907AN

Ordering Information

Type NO.	Marking Package Code		
STC2222AN	STC2222A	TO-92N	

Outline Dimensions



KSD-T0C057-000

STC2222AN

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Collector-base voltage	V_{CBO}	75	V
Collector-emitter voltage	$V_{\sf CEO}$	40	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_{C}	600	mA
Collector power dissipation	P_{C}	400	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

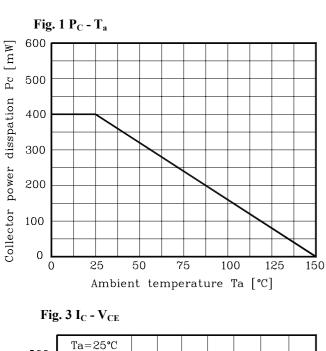
Electrical Characteristics

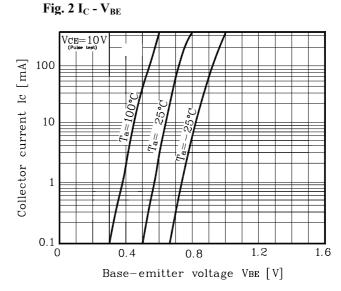
Ta=25°C

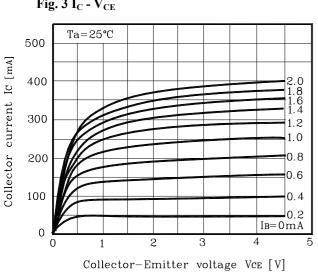
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=10$ mA, $I_B=0$	40	1	ı	V
Collector cut-off current	I_{CBO}	$V_{CB} = 75V$, $I_{E} = 0$	ı	ı	50	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	1	ı	50	nA
DC current gain	h _{FE}	V _{CE} =10V, I _C =10mA	75	ı	ı	-
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	I_C =150mA, I_B =15mA	ı	ı	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} =20V, I_{C} =20mA	-	200	1	MHz
Collector output capacitance	C _{ob}	V_{CB} =10V, I_{E} =0, f=1MHz	-	6.0	-	pF

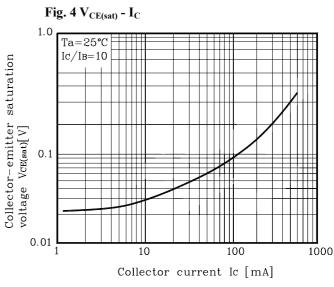
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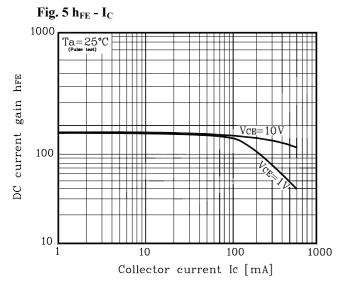
Electrical Characteristic Curves

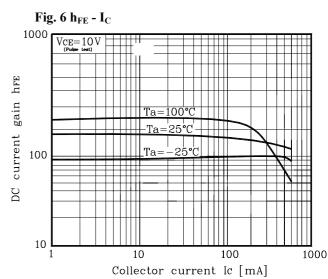












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