

Description

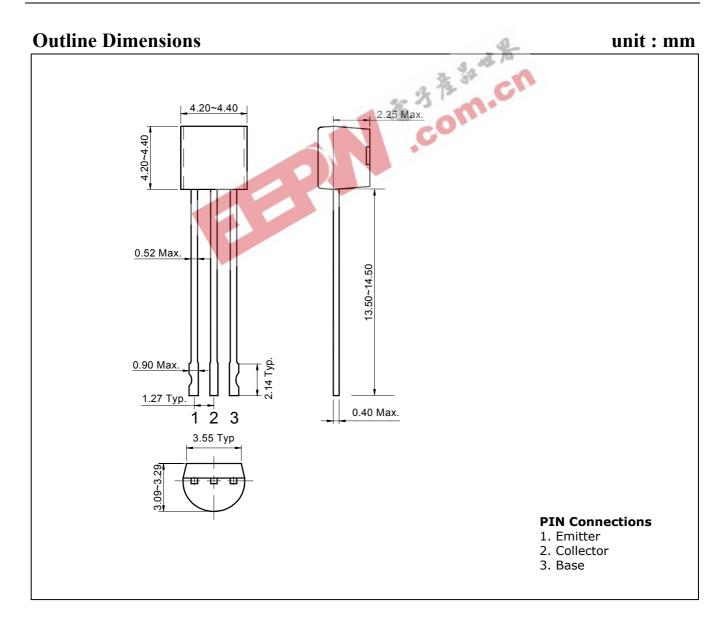
• General small signal amplifier

Features

- Low collector saturation voltage : $V_{CE(sat)}$ =-0.3V(Max.) Low output capacitance : C_{ob} =4pF(Typ.)
- Complementary pair with STC945N

Ordering Information

Type NO.	Marking	Package Code	
STA733N	STA733	TO-92N	



STA733N

(Ta=25°C)

Absolute Maximum Ratings

Characteristic	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-50	V	
Collector-emitter voltage	V _{CEO} -40		V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector current	I _C	-150	mA	
Collector power dissipation	P _C	400	mW	
Junction temperature	T	150	°C	
Storage temperature range	T_{stg}	-55~150	°C	

Electrical Characteristics

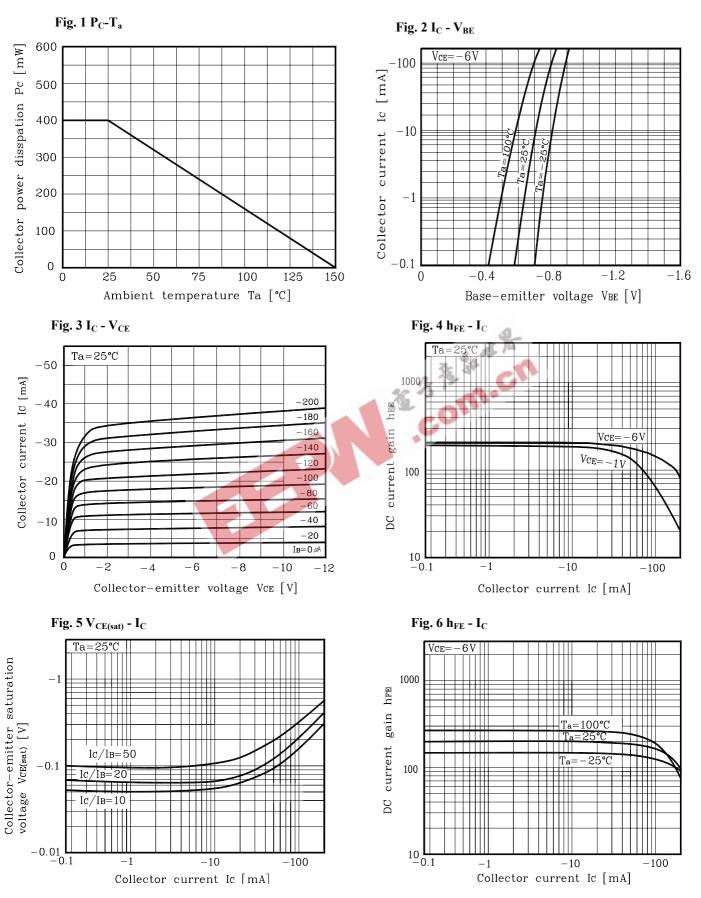
Electrical Characteristics						(Ta=25°C)	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Collector-emitter breakdown voltage	BV _{CEO}	I_C =-1mA, I_B =0	-40	-	-	V	
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0	-	-	-0.1	μA	
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_C =0	-	-	-0.1	μA	
DC current gain	h _{FE} *	V_{CE} =-6V, I _C =-2mA	70	-	700	-	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-100mA, I _B =-10mA	-	-	-0.3	V	
Base-emitter voltage	V _{BE}	V _{CE} =-6V, I _C =-2mA	<u>0-</u>	-0.67	-0.9	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	-	4	-	pF	
*: h ronk / 0 · 70 · 140 V · 120 · 240 G · 200 · 400 J · 200 700							

*: h_{FE} rank / O : 70~140, Y : 120~240, G : 200~400, L : 300~700.

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STA733N

Electrical Characteristic Curves



KSD-T0C025-001



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