

Description

- Audio power amplifier application

Features

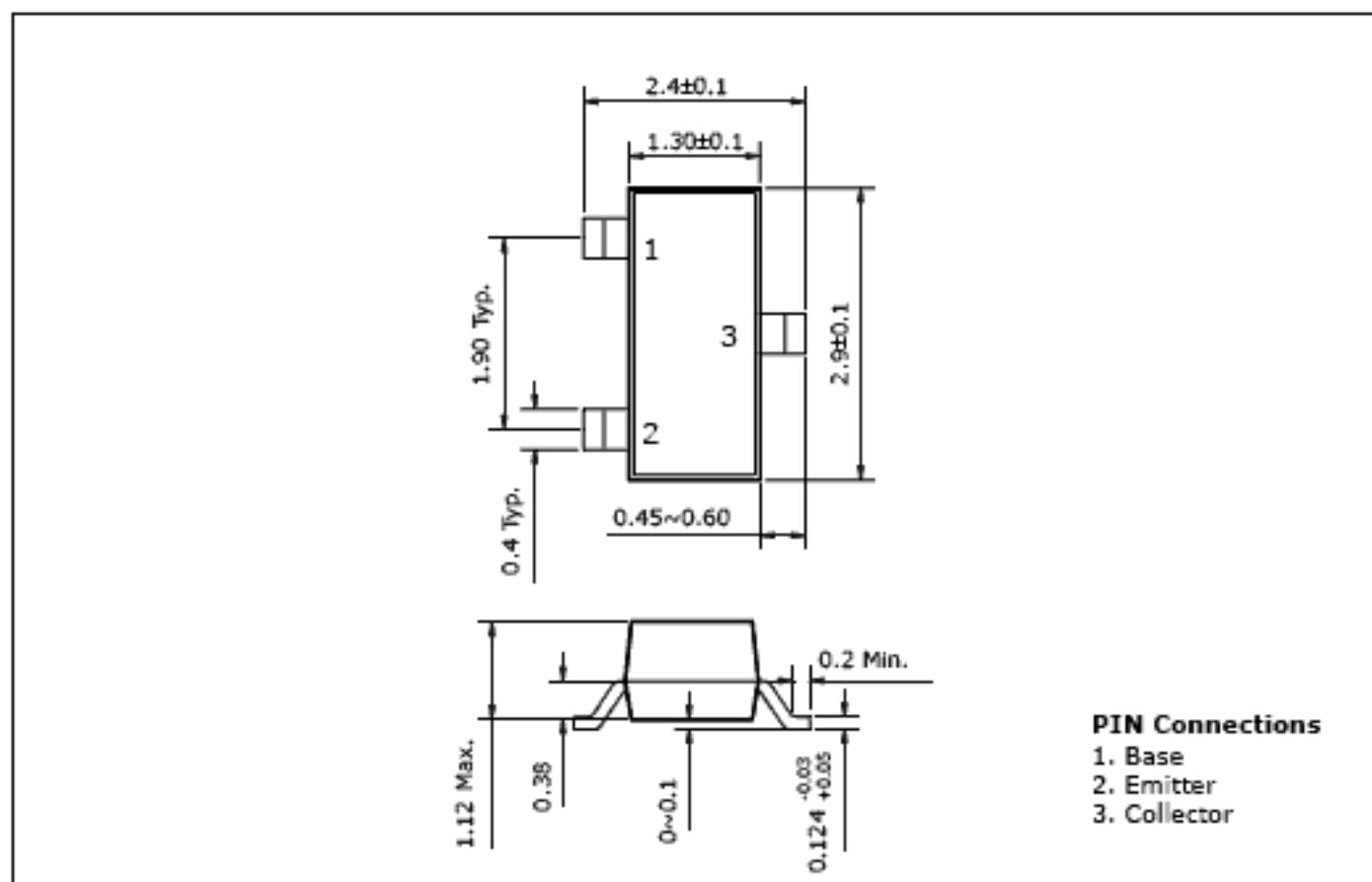
- High h_{FE} : $h_{FE}=100\sim 320$
- Complementary pair with STA1298

Ordering Information

Type NO.	Marking	Package Code
STC3265	FA <input type="checkbox"/> <input type="checkbox"/> : h_{FE} rank	SOT-23

Outline Dimensions

unit : mm



Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	35	V
Collector-Emitter voltage	V _{CBO}	30	V
Emitter-Base voltage	V _{EBO}	5	V
Collector current	I _C	800	mA
Collector dissipation	P _C	200	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 =100μA, I _E =0	35	-	-	V
Collector-Emitter breakdown voltage	BV _{CBO}	I _C =10mA, I _B =0	30	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I _E =10μA, I _C =0	5	-	-	V
Collector cut-off current	I _{CBO}	V _{CE} =35V, 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} =1V, I _C =100mA	100	-	320	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA	-	-	0.5	V
Transition frequency	f _T	V _{CE} =5V, I _C =10mA	-	120	-	MHz
Collector output capacitance	C _{ob}	V _{CE} =10V, I _E =0, f=1MHz	-	13	-	pF

*: h_{FE} rank / O : 100 ~ 200, Y : 160 ~ 320

Electrical Characteristic Curves

Fig. 1 P_C - T_a

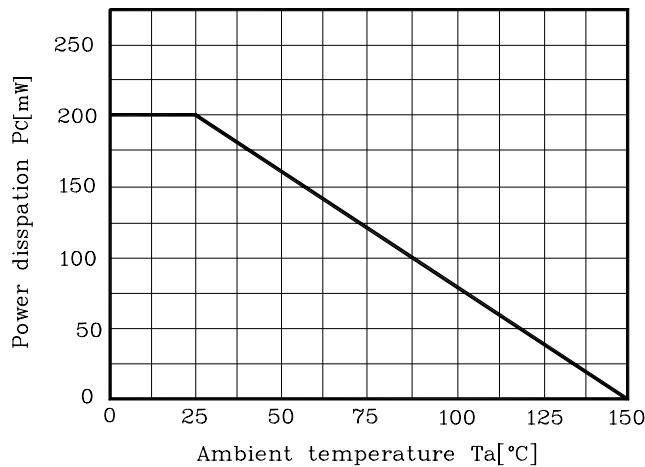


Fig. 3 I_C - V_{CE}

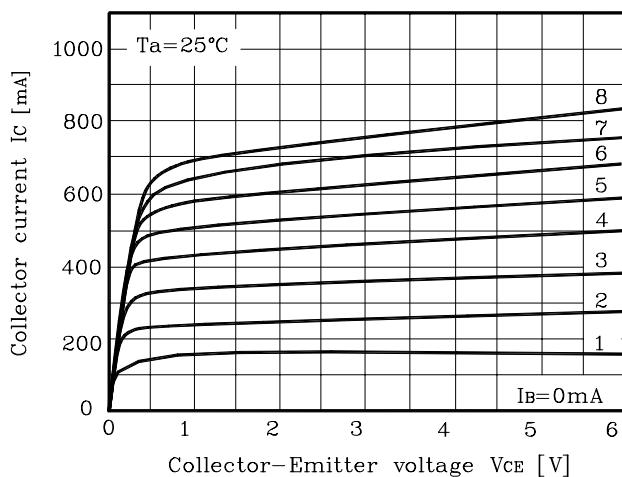


Fig. 2 I_C - V_{BE}

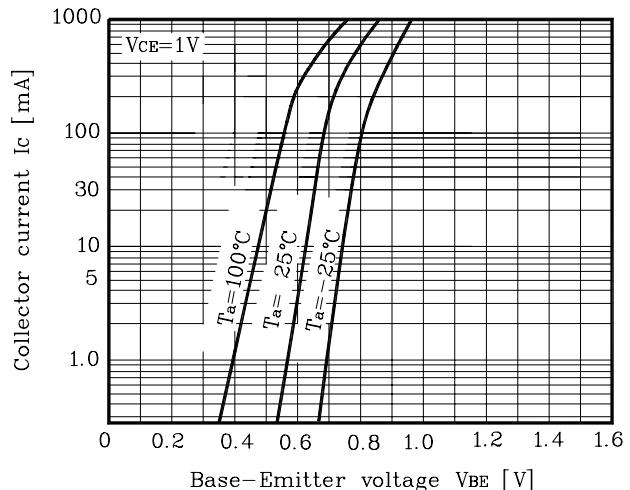


Fig. 4 $V_{CE(sat)}$ - I_C

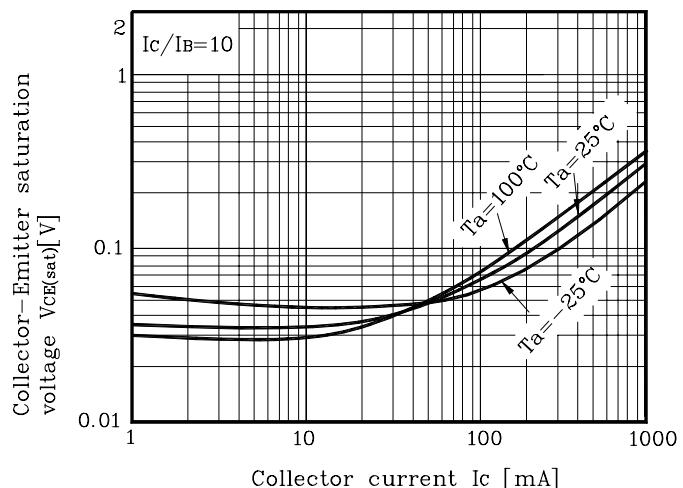


Fig. 5 h_{FE} - I_C

