

PIN Connections

1. Base

2. Emitter
3. Collector

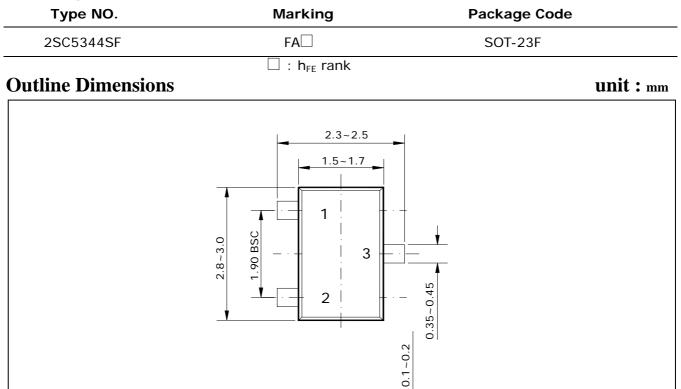
Description

Audio power amplifier application

Features

- High h_{FE} : $h_{FE} = 100 \sim 320$
- Complementary pair with 2SA1981SF

Ordering Information



0~0.1

0.8~1.0

2SC5344SF

Absolute maximum ratings

Absolute maximum ratings			(Ta=25°C)
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	35	V
Collector-Emitter voltage	V _{CEO}	30	V
Emitter-Base voltage	V _{EBO}	5	V
Collector current	Ι _C	800	mA
Collector dissipation	P _C	200	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

Electrical Characteristics (=25°C)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV_{CBO}	$I_{C} = 100 \mu A$, $I_{E} = 0$	35	-	-	V
Collector-Emitter breakdown voltage	BV_{CEO}	$I_{C}=1mA$, $I_{B}=0$	30	-	-	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_{E} = 10 \mu A$, $I_{C} = 0$	5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = 35V, I_{E} = 0$	-	-	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_{CB} =10V, I_E =0, f=1MHz	-	13	-	pF

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

1.4

1.6

1000

Electrical Characteristic Curves

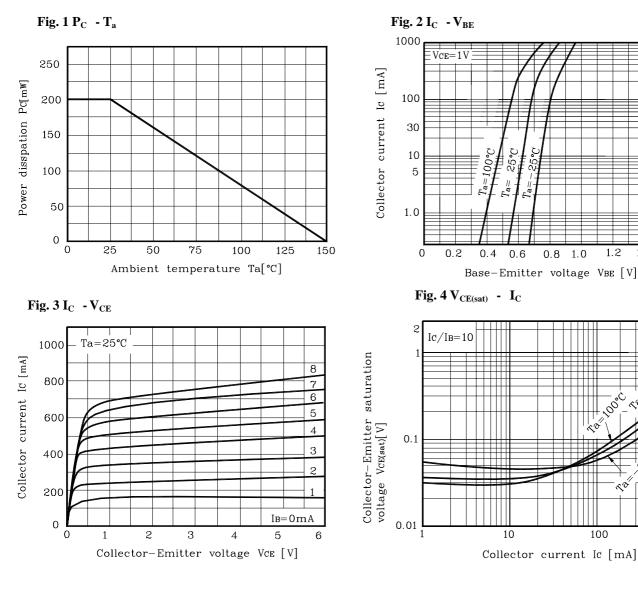
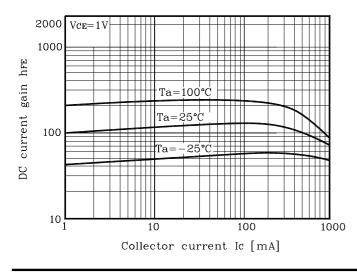


Fig. 5 $h_{FE}\,$ - $\,I_{C}$



KST-2068-001

$2SC534\overline{4SF}$

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