

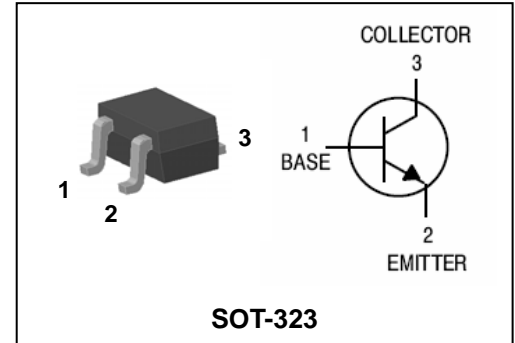
Description

- Audio power amplifier application

Features

- High h_{FE} : $h_{FE}=100\sim 320$
- Complementary pair with 2SA1981U

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
2SC5344U	<div style="display: flex; align-items: center; gap: 5px;"> E □ □ </div> <div style="display: flex; align-items: center; gap: 5px;"> ① ② ③ </div>	SOT-323

①Device Code ②hFE Rank ③Year&Week Code

Absolute maximum ratings

($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CB0}	35	V
Collector-Emitter voltage	V_{CEO}	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	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics

($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV_{CB0}	$I_C=100\mu\text{A}$, $I_E=0$	35	-	-	V
Collector-Emitter breakdown voltage	BV_{CEO}	$I_C=1\text{mA}$, $I_B=0$	30	-	-	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_E=10\mu\text{A}$, $I_C=0$	5	-	-	V
Collector cut-off current	I_{CB0}	$V_{CB}=35\text{V}$, $I_E=0$	-	-	0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$	-	-	0.1	μA
DC current gain	h_{FE}^*	$V_{CE}=1\text{V}$, $I_C=100\text{mA}$	100	-	320	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=500\text{mA}$, $I_B=50\text{mA}$	-	-	0.5	V
Transition frequency	f_T	$V_{CE}=5\text{V}$, $I_C=10\text{mA}$	-	120	-	MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	13	-	pF

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

Electrical Characteristic Curves

Fig. 1 $P_C - T_a$

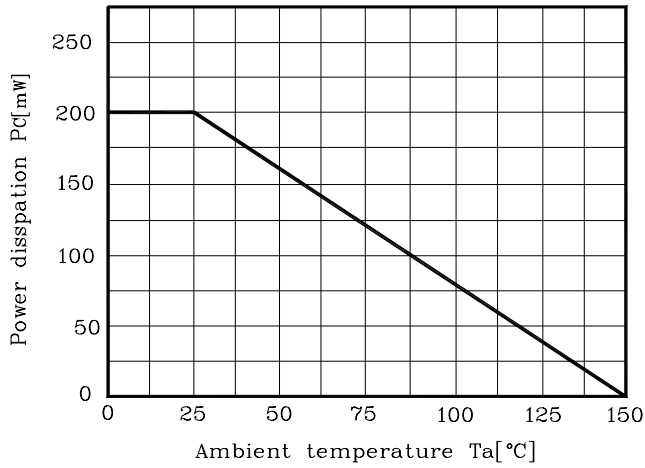


Fig. 2 $I_C - V_{BE}$

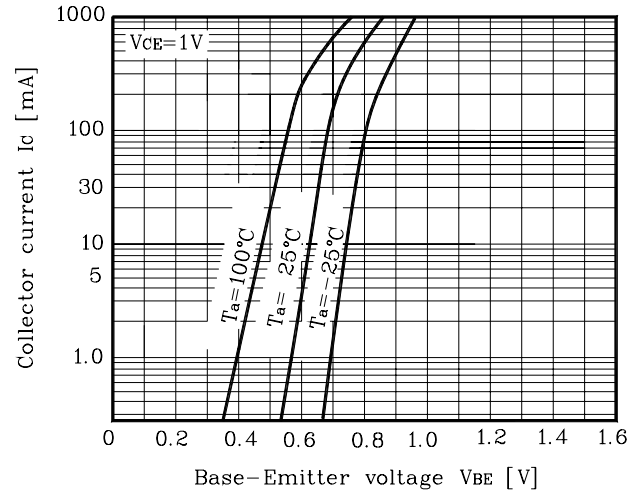


Fig. 3 $I_C - V_{CE}$

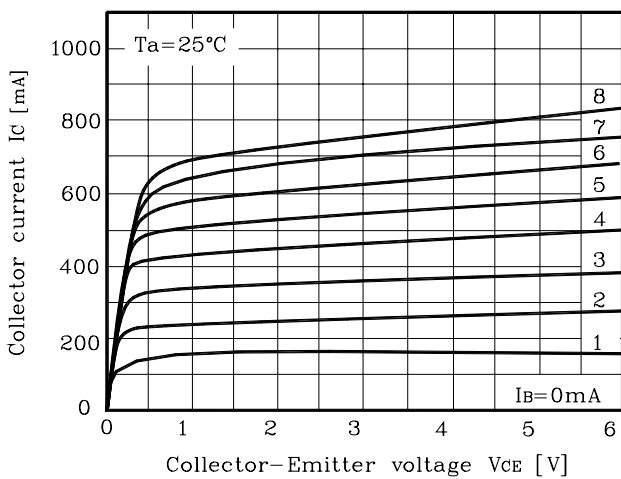


Fig. 4 $V_{CE(sat)} - I_C$

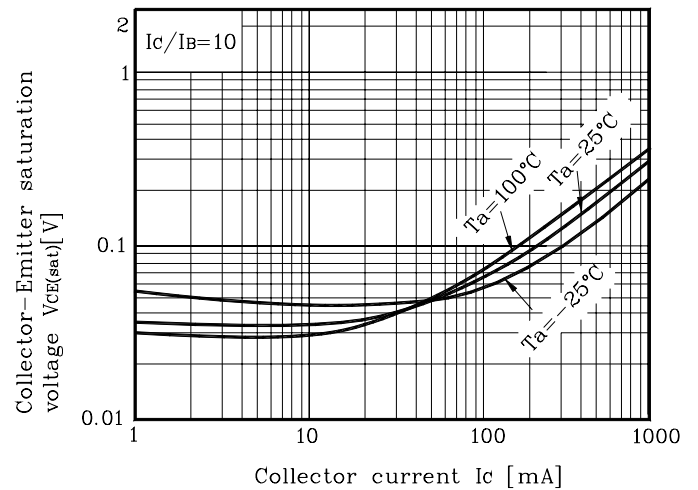
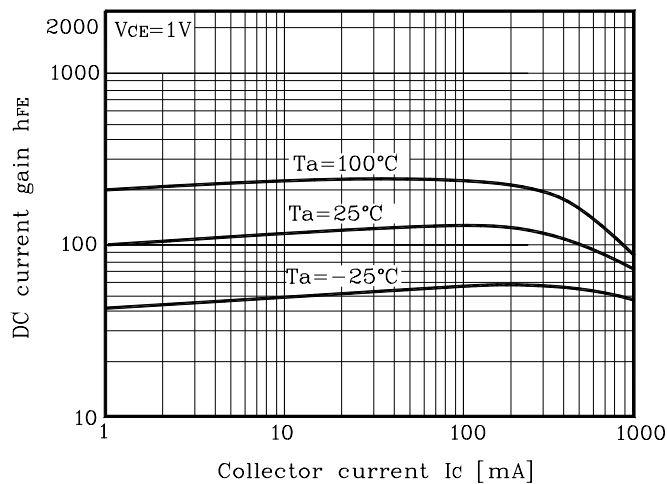
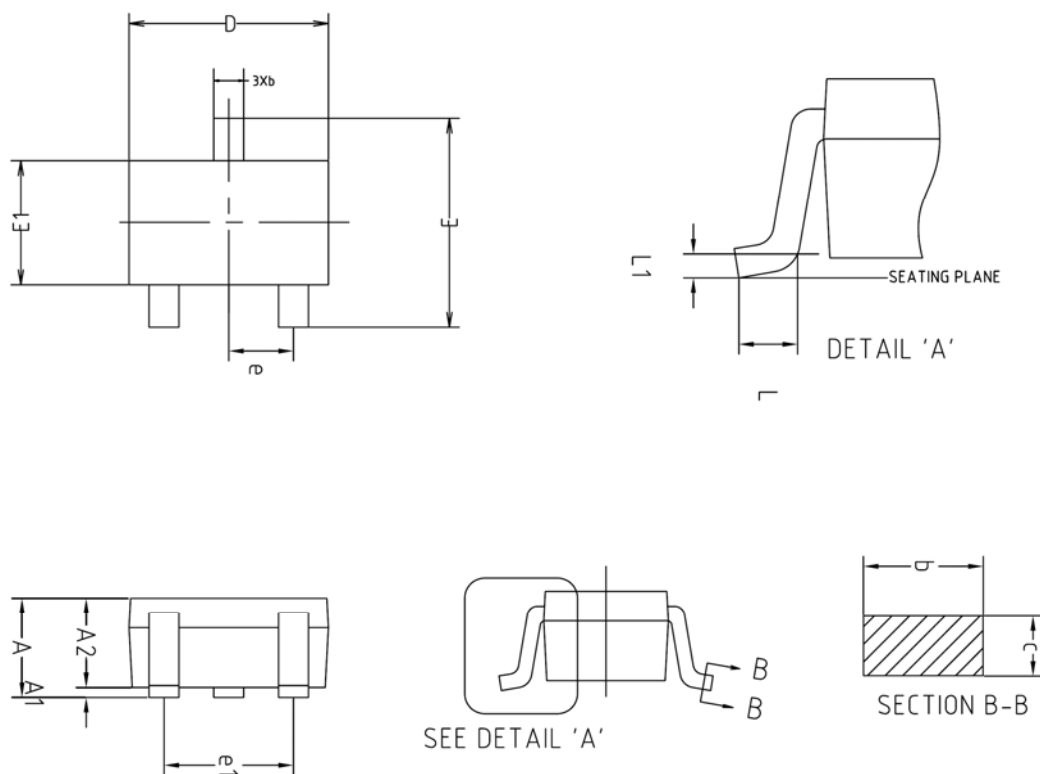


Fig. 5 $h_{FE} - I_C$

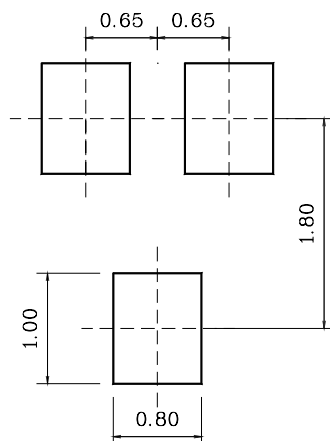


Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	0.90	-	1.25	
A1	0.00	-	0.10	
A2	0.85	0.90	0.95	
b	0.30	-	0.40	
c	0.10	-	0.25	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.15	1.25	1.35	
e	0.65BSC			
e1	1.20	-	1.40	
L	0.10	-	-	
L1	0.12BSC			

※Recommend PCB solder land [Unit: mm]



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