



Description

• Audio power amplifier application

Features

• High hfe: hfe=100~320

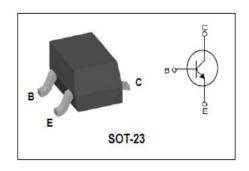
• Complementary pair with KA1981S

Ordering Information

Type NO.	Marking	Package Code
KC5344S	<u>FA</u> □ □• ① ② ③	SOT-23

①Device Code ②HFE Rank ③Year& Week Code • Dalian

PIN Connection



Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	30	V
Collector-Emitter voltage	V_{CEO}	35	V
Emitter-Base voltage	V_{EBO}	5	V
Collector current	I _C	800	mA
Collector dissipation	PC*	350	mW
Junction temperature	T _j	150	°C
Storage temperature range	T_{stg}	-55~150	°C

^{*} Package mounted on 99.5% alumina 10×8×0.6mm

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	ВУсво	Ic=100μA, Iε=0	35	-	_	V
Collector Emitter breakdown voltage	BVCEO	Ic=1mA, I _B =0	30	-	-	V
Emitter-Base breakdown voltage	ВVево	Iε=10μΑ, Ic=0	5	-	-	V
Collector cut-off current	Ісво	Vcb=35V, IE=0	-	-	0.1	μΑ
Emitter cut-off current	Iево	V _{EB} =5V, I _C =0	-	-	0.1	μΑ
DC current gain	* h _{FE}	VcE=1V, Ic=100mA	100	-	320	-
Collector-Emitter saturation voltage	VCE(sat)	Ic=500mA, I _B =50mA	-	-	0.5	V
Transition frequency	f⊤	VcE=5V, Ic=10mA	-	120	-	MHz
Collector output capacitance	Сор	VcB=10V, IE=0,f=1MHz	-120	13	-	pF

^{* :} hFE rank / O : 100 \sim 200, Y : 160 \sim 320

Electrical Characteristic Curves

Fig. 1 Pc - Ta

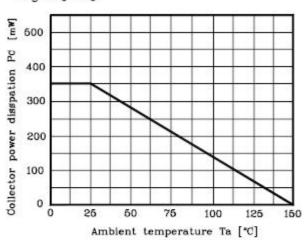


Fig. 2 Ic - VBE

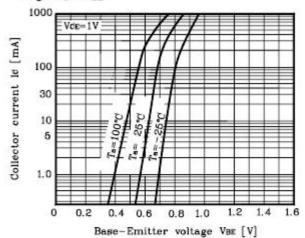


Fig. 3 Ic - VCE

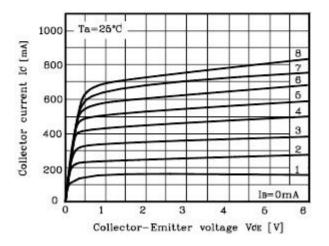


Fig. 4 V_{CE(zat)} - I_C

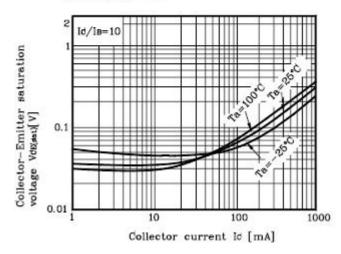
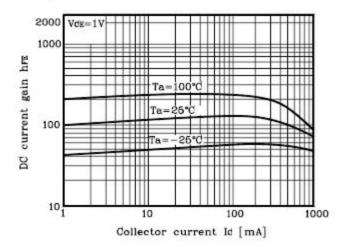
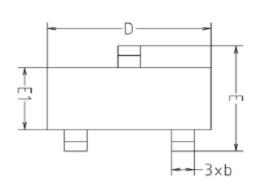
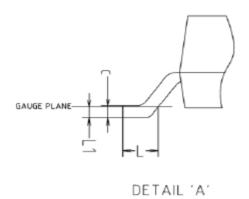


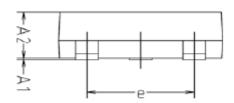
Fig. 5 hFE - Ic

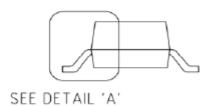


Outline Dimension



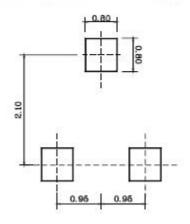






SYMBOL	MILLIMETERS			NOTE
0111000	MINIMUM	NOMINAL	MAXIMUM	11012
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
C	0.09	0.12	0.15	
D	2.80	2.90	3.00	
E	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	-	-	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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