



EKODENSHI AUK

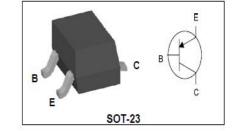
Description

• General small signal amplifier

PIN Connection

Features

- Low collector saturation voltage: V_{CE(sat)}=-0.3V(Max.)
- Low output capacitance : Cob=4pF(Typ.)
- Complementary pair with KC5343S



Ordering Information

Type NO.	Marking	Package Code
KA1980S	<u>CA</u> □ □• ① ② ③	SOT-23

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

Absolute Maximum Ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Collector-base voltage	Vсво	-50	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	V EBO	-5	V
Collector current	I c	-150	mA
Collector power dissipation	Pc*	350	mW
Junction temperature	T_{j}	150	°C
Storage temperature range	T_{stg}	-55~150	°C

^{*} Package mounted on 99.5% alumina $10\times8\times0.6$ mm

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BVceo	Ic=-1mA, I _B =0	-50	-	-	V
Collector cut-off current	Ісво	Vcb=-50V, 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=-6V, Ic=-2mA	70	1	700	1
Collector-emitter saturation voltage	VCE(sat)	Ic=-100mA, I _B =-10mA	-	-	-0.3	V
Transition frequency	f⊤	VcE=-10V, Ic=-1mA	80	-	-	MHz
Collector output capacitance	Сор	V _{CB} =-10V, I _E =0, f=1MHz	-	4	-	pF
Noise figure	NF	$V_{CE}=-6V$, $I_{C}=-0.1Ma$ $f=1KHz$, $Rq=10K\Omega$	-	10	-	dB

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

Electrical Characteristic Curves

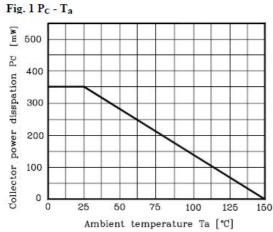


Fig. 2 I_C - V_{BE}

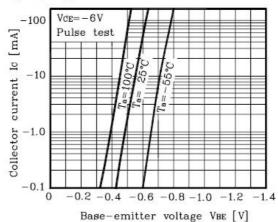
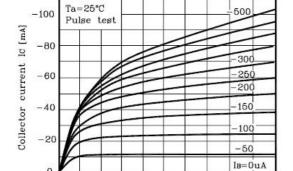


Fig. 3 I_C - V_{CE}



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Collector-emitter voltage VdE [V]

Fig. 4 h_{FE} - I_C

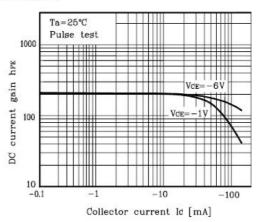
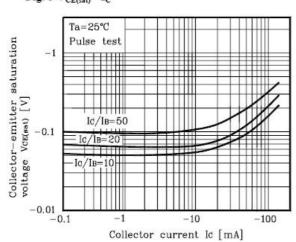
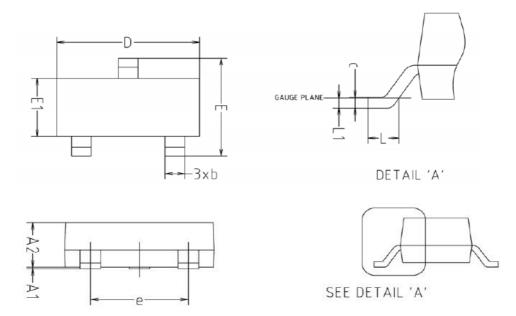


Fig. 5 V_{CE(sat)} - I_C

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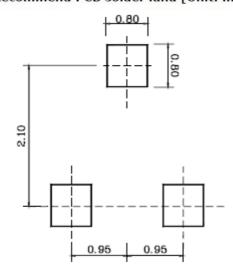


Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	NUTE
Α1	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				
L	0.20	-	-	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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