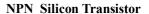


产品规格书

批 准	审 核	校 核	编 制
纪春华	朴致均	赵宇辉	郑羿
2018. 09. 07	2018. 09. 07	2018. 09. 07	2018. 09. 07

规格书更改履历:

序号	更改内容	履历号	更改时间	责任人
1	新规制定	000	2017. 11. 02	郑羿
2	增加决裁	001	2018. 08. 22	郑羿
3	增加 TAPING 标准	003	2018. 09. 07	郑羿





Descriptions

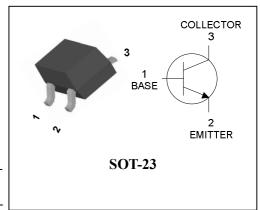
- General purpose Bipolar Transistor Features
 - Large collector current
 - Suitable for low-Voltage operation because of Its low saturation voltage
- Complementary pair with K8550S

Ordering Information

Type NO.	Marking	Package Code
K8050S	<u>KL</u> <u>□</u> <u>□</u> • ① ② ③	SOT-23

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

PIN Connection



Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	40	V
Collector-Emitter voltage	V_{CEO}	25	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_{C}	500	mA
Collector dissipation	P_{C}	350	mW
Junction temperature	T _j	150	°C
Storage temperature range	T_{stg}	-55~150	°C

Electrical Characteristics

Ta=25°C

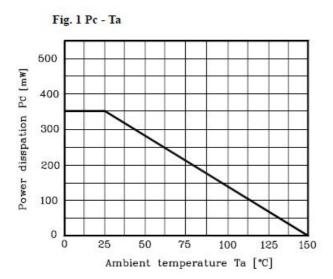
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I _C =100uA, I _E =0	40	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	25	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I _E =100uA, I _C =0	6	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = 30V, I_{E} = 0$	-	-	0.1	uA
Emitter cut-off current	I_{EBO}	V _{EB} =6V, I _C =0	-	-	0.1	uA
DC current gain	h _{FE1}	V _{CE} =1V, I _C =50mA	85	-	300	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	I _C =500mA, I _B =50mA	-	-	0.5	V
Transition frequency	*f _T	V_{CE} =6V, I_{C} =20mA,	-	200	-	MHz
Collector Output Capacitance	*C _{ob}	$V_{CB}=6V$, $I_{E}=0$, $f=1MHz$	-	7.5	-	pF

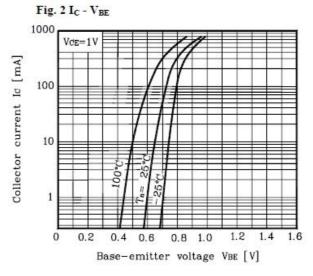
^{* *} 非关键参数按照顾客要求标注

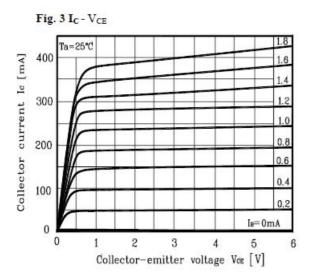
HFE Grade:

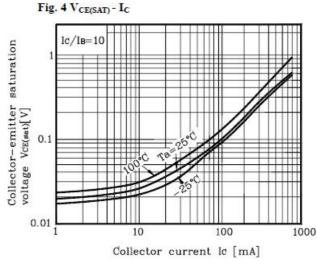
Rank	В	С	D
Range	85~160	120~200	160~300
Mark Name	KL7	KL8	KL9

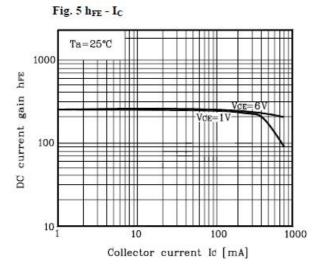
Electrical Characteristic Curves

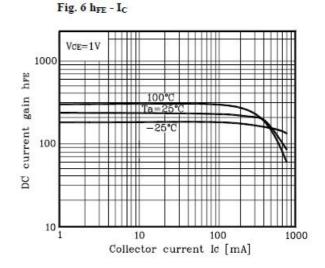




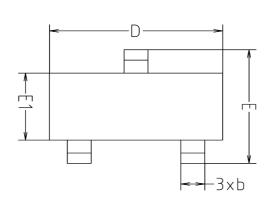


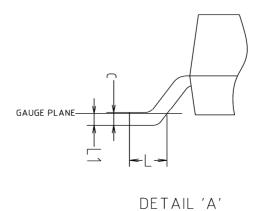


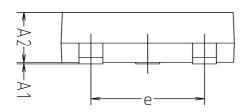




Outline Dimension



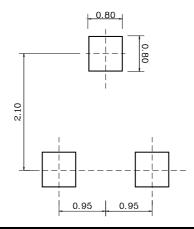




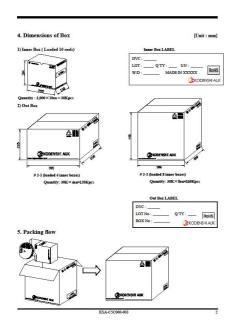


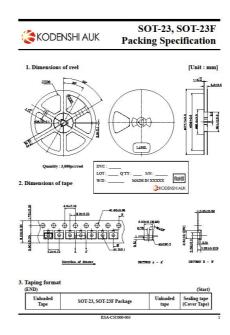
SYMBOL	MILLIMETERS			NOTE
STITIBOL	MINIMUM	NOMINAL	MAXIMUM	INOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	_	_	
L1	0.12BSC			

*Recommend PCB solder land [Unit: mm]



Packing Specification





The AUK Dalian Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Dalian Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Dalian Corp. cannot accept liability to any damage which may occur in case these AUK Dalian Corp. products were used in the mentioned equipments without prior consultation with AUK Dalian Corp..

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