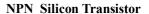


产品规格书

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

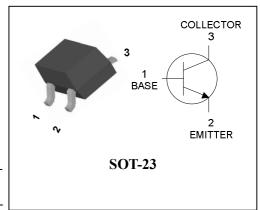
- General purpose Bipolar Transistor Features
 - Large collector current
 - Suitable for low-Voltage operation because of Its low saturation voltage
- Complementary pair with K8550S

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

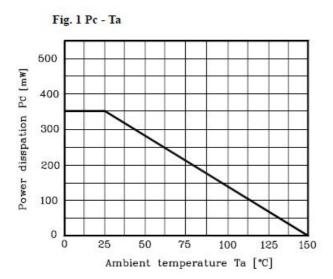
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I _C =100uA, I _E =0	40	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	25	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I _E =100uA, I _C =0	6	-	-	V
Collector cut-off current	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

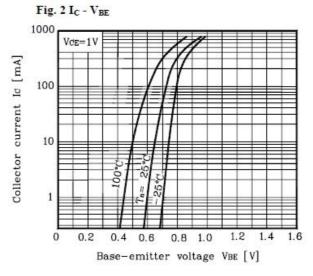
^{* *} 非关键参数按照顾客要求标注

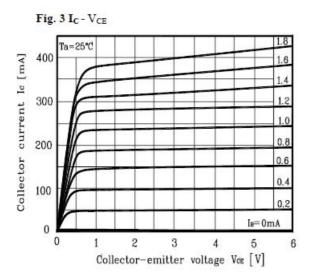
HFE Grade:

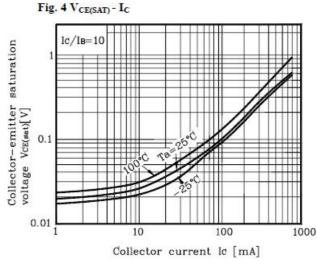
Rank	В	С	D
Range	85~160	120~200	160~300
Mark Name	KL7	KL8	KL9

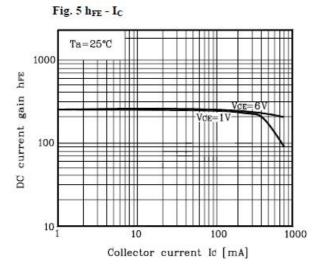
Electrical Characteristic Curves

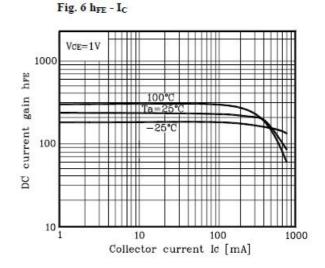




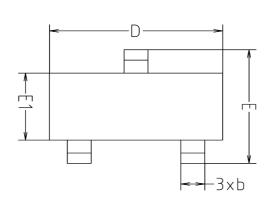


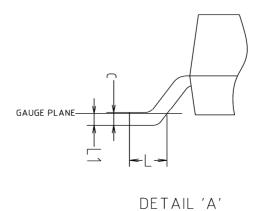


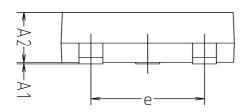




Outline Dimension



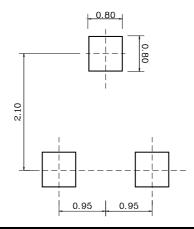




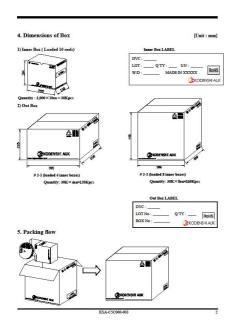


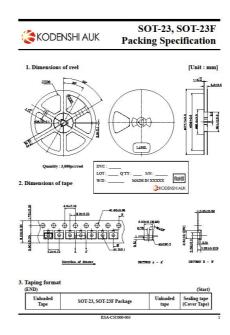
SYMBOL	MILLIMETERS			NOTE
STITIBOL	MINIMUM	NOMINAL	MAXIMUM	INOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	_	_	
L1	0.12BSC			

*Recommend PCB solder land [Unit: mm]



Packing Specification





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