



NPN Silicon Transistor

Descriptions

• High current application

PIN Connection

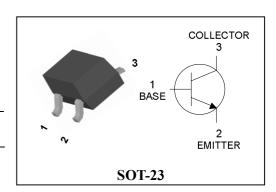
Features

• Complementary pair with KS8550L

Ordering Information

Type NO.	Marking	Package Code
KS8050L	<u>KK</u> <u>□</u> <u>□</u> • ① ② ③	SOT-23

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



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}	1500	mA
Collector dissipation	P _C	350	mW
Junction temperature	T_j	150	°C
Storage temperature range	T _{sta}	-55~150	°C

Electrical Characteristics

Ta=25°C

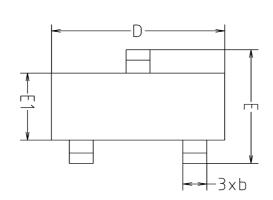
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I _C =100uA, I _E =0	40	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=2mA$, $I_B=0$	25	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	I_{E} =100uA, I_{C} =0	6	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = 35V, I_{E} = 0$	-	-	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 =100mA	85	-	300	-
De carreire gant	h _{FE2}	$V_{CE}=1V$, $I_{C}=800$ mA	40	-		
Collector-Emitter saturation voltage	$V_{\text{CE(sat)}}$	I _C =800mA, I _B =80mA	_	-	0.5	>
Base-Emitter saturation voltage	$V_{BE(sat)}$	I _C =800mA, I _B =80mA	-	-	1.2	V
Base-Emitter voltage	V_{BE}	V _{CE} =1V, I _C =10mA			1.0	V
Transition frequency	f _T	V _{CE} =10V, I _C =50mA,	100	-	-	MHz

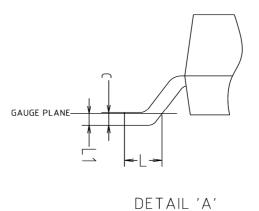
HFE Grade:

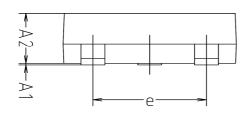
Rank	В	С	D
Range	85~160	120~200	160~300
Mark Name	KKB	KKC	KKD

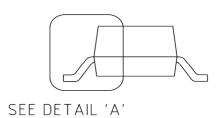
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Outline Dimension



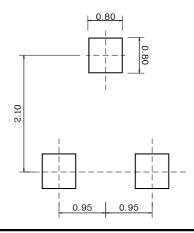






SYMBOL	MILLIMETERS			NOTE
STIBOL	MINIMUM	NOMINAL	MAXIMUM	INOTE
Α1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	_	_	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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