

Descriptions

- High current application

PIN Connection

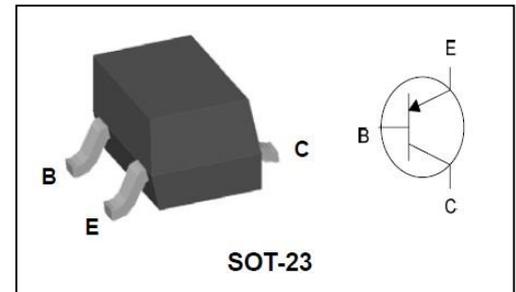
Features

- Complementary pair with KS8050L

Ordering Information

Type NO.	Marking	Package Code
KS8550L	KU □ □ ● ① ② ③	SOT-23

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



Absolute maximum ratings

 $T_a = 25^\circ\text{C}$

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CB0}	-40	V
Collector-Emitter voltage	V_{CE0}	-25	V
Emitter-base voltage	V_{EB0}	-6	V
Collector current	I_C	-1500	mA
Collector dissipation	P_C	350	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~150	$^\circ\text{C}$

Electrical Characteristics

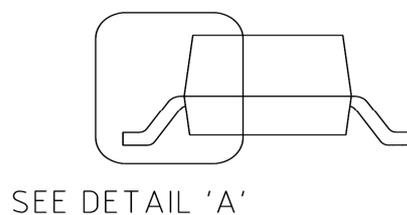
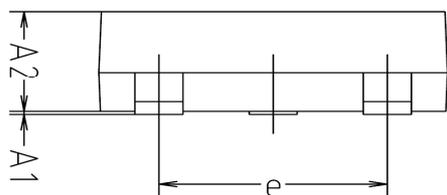
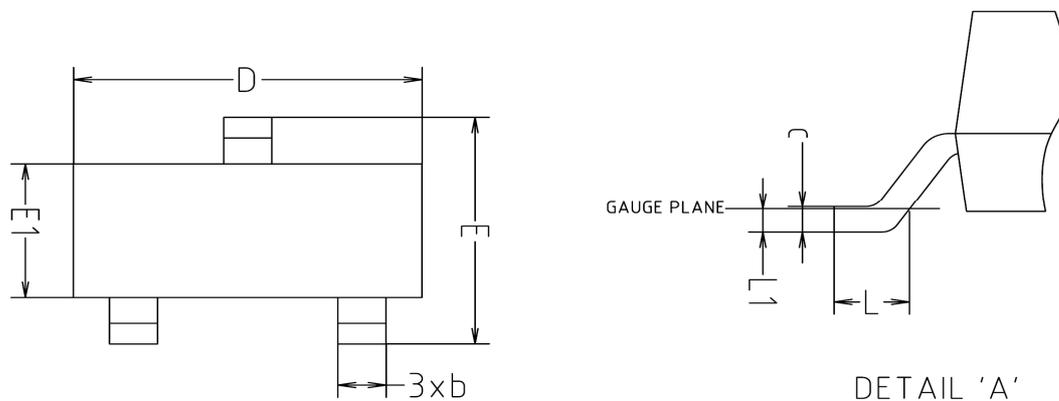
 $T_a = 25^\circ\text{C}$

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV_{CB0}	$I_C = -100\mu\text{A}, I_E = 0$	-40	-	-	V
Collector-Emitter breakdown voltage	BV_{CE0}	$I_C = -2\text{mA}, I_B = 0$	-25	-	-	V
Emitter-Base breakdown voltage	BV_{EB0}	$I_E = -100\mu\text{A}, I_C = 0$	-6	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = -35\text{V}, I_E = 0$	-	-	-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6\text{V}, I_C = 0$	-	-	-0.1	μA
DC current gain	h_{FE1}	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	85	-	300	-
	h_{FE2}	$V_{CE} = -1\text{V}, I_C = -800\text{mA}$	40	-	-	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C = -800\text{mA}, I_B = -80\text{mA}$	-	-	-0.5	V
Base-Emitter saturation voltage	$V_{BE(sat)}$	$I_C = -800\text{mA}, I_B = -80\text{mA}$	-	-	-1.2	V
Base-Emitter voltage	V_{BE}	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	-	-	-1.0	V
Transition frequency	f_T	$V_{CE} = -10\text{V}, I_C = -50\text{mA}$	100	-	-	MHz

HFE Grade:

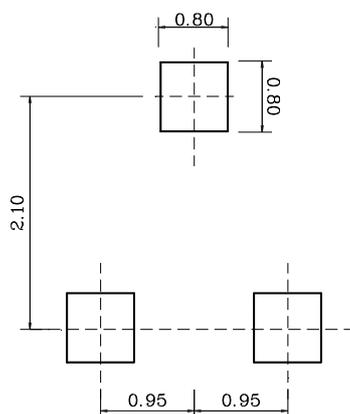
Rank	B	C	D
Range	85~160	120~200	160~300
Mark Name	KUB	KUC	KUD

Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A1	0.00	-	0.10	
A2	0.82	-	1.02	
b	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	
e	1.90BSC			
L	0.20	-	-	
L1	0.12BSC			

※Recommend PCB solder land [Unit: mm]



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