





Descriptions

• General purpose Bipolar Transistor

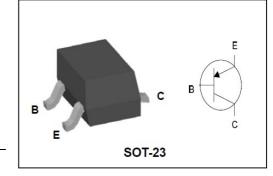
PIN Connection

Features

- Large collector current
- Suitable for low-Voltage operation because of Its low saturation voltage
- Complementary pair with K8050S

Ordering Information

Type NO.	Marking	Package Code
K8550S	<u>KV</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}	-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.	Typ.	Max.	Unit
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-25	ı	ı	V
Collector cut-off current	I_{CBO}	$V_{CB} = -30V, I_{E} = 0$	ı	ı	-0.1	uA
Emitter cut-off current	I_{EBO}	V_{EB} =-6V, I_C =0	ı	ı	-0.1	uA
DC current gain	h _{FE}	V _{CE} =-1V, I _C =-50mA	100	-	700	-
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-Base capacitance	C _{cb}	V_{CB} =-6V, I_E =0, f=1MHz	-	7.5	-	pF

HFE Grade: C:100~180 D:160~300 E:280~700

Mark Name: C: KV8 D: KV9 E: KVA

Electrical Characteristic Curves

Fig. 1 Pc - Ta

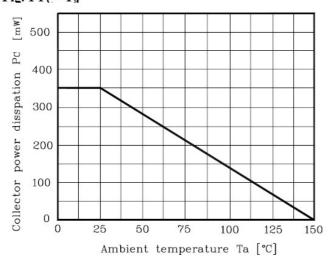


Fig. 2 I_C - V_{BE}

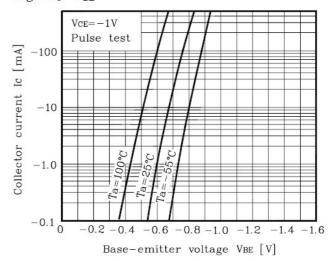


Fig. 3 I C - VCE

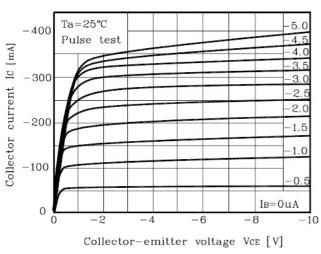


Fig. 4 V_{CE(sat)} - I_C

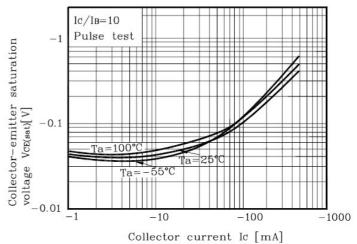


Fig. 5 h_{FE} - I_C

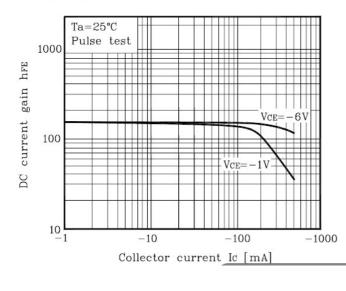
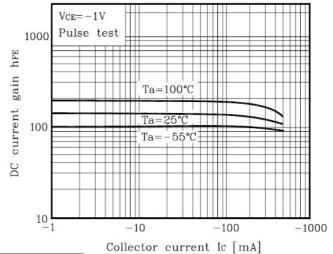
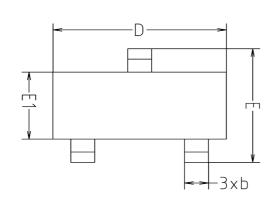
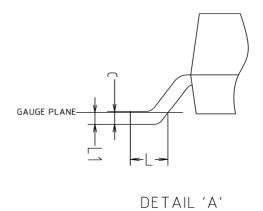


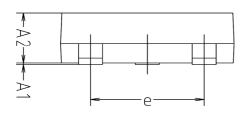
Fig. 6 h_{FE} - I_{C}



Outline Dimension



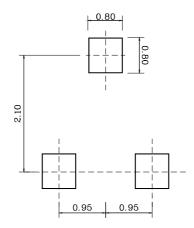






SYMBOL	MILLIMETERS			NOTE
STIBOL	MINIMUM	NOMINAL	MAXIMUM	
Α1	0.00	-	0.10	
A 2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	-	_	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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