CODENSHI AUK

• General purpose application •Switching application

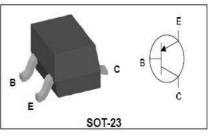
Features

- High voltage: VCEO=-55V
- Complementary pair with KBC846

Ordering Information

Type NO.	Marking	Package Code
KBC856 HKBC856	$\begin{array}{c c} \underline{TA} & \square & \square \bullet \\ KX & \square & \square \bullet \end{array}$	SOT-23 SOT-23
	123	

PIN Connection



KBC856

PNP Silicon Transistor

①Device Code ②HFE Rank ③Year& Week Code •Dalian

Absolute maximum ratings

Absolute maximum ratings			Ta=25 C
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	-80	V
Collector-Emitter voltage	V _{CEO}	-55	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-100	mA
Collector dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Flectrical Characteristics

Electrical Characteristics Ta=25 C					a=25 C	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BVCEO	Ic=-2mA, I _B =0	-55	-	-	V
Base-Emitter turn on voltage	VBE(ON)	Vce=-5V, Ic=-2mA	-	-	-700	mV
Base-Emitter saturation voltage	VBE(sat)	Ic=-100mA, Iв=-5mA	-	-900	-	mV
Collector-Emitter saturation voltage	VCE(sat)	Ic=-100mA, Iв=-5mA	-	-	-650	mV
Collector cut-off current	Ісво	Vcb=-35V, Ie=0	-	-	-15	nA
DC current gain	* hfe	Vce=-5V, Ic=-2mA	110	-	800	-
Transition frequency	f⊤	Vce=-5V, Ic=-10mA	-	150	-	MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz	-	-	4.5	pF
Noise figure	NF	Vce=-5V, Ic=-200μA, f=1KHz, Rg=2KΩ	-	-	10	dB

* : hFE rank / A : 110 ~ 220, B : 200 ~ 450, C : 420 ~ 800

Electrical Characteristic Curves

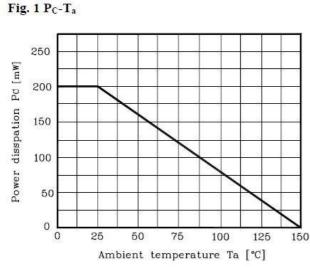


Fig. 3 I_C-V_{CE}

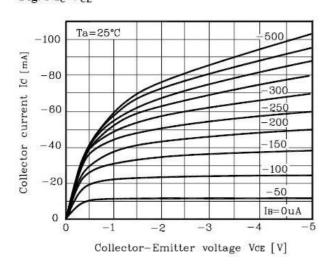
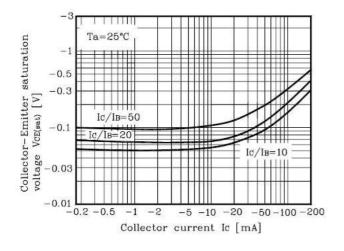


Fig. 5 VCE(sat) -IC





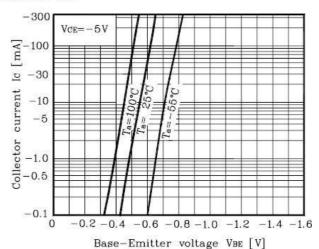
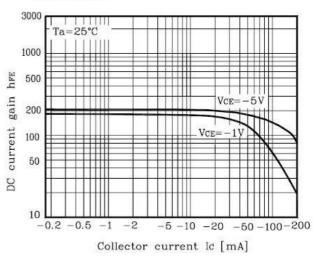
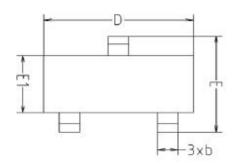


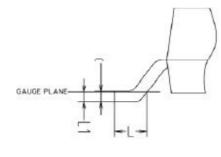
Fig. 4 h_{FE}-I_C



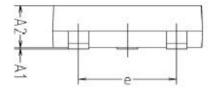
KBC856

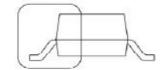
Outline Dimension





DETAIL 'A'

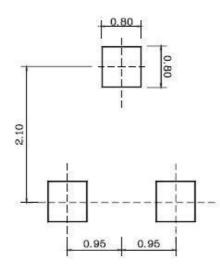




SEE DETAIL 'A'

SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	NUTE
A1	0.00	12 L	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	
Ē	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
e	i mari	1.90BS0	-	
L	0.20	-	-	
L1		0.12BS0		

*Recommend PCB solder land [Unit: mm]



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