

产品规格书

批准	审 核	校 核	编制
纪春华	/	朴致均	郑羿
2018.07.24	/	2018.07.24	2018.07.24

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	2018.03.28	郑羿
2	增加封面	001	2018.07.24	郑羿
3	增加 MARK 丝印名	002	2018.08.13	郑羿

KODENSHI AUK

KBC856

PNP Silicon Transistor

Descriptions

• General purpose application

•Switching application

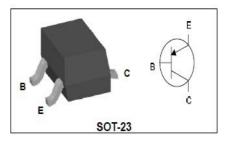
Features

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

Ordering Information

Type NO.	Marking	Package Code
KBC856	<u>TA </u> •	SOT-23
HKBC856	<u>KX 🗌 </u>	SOT-23
	1 2 3	

PIN Connection



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	P _C	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Electrical Characteristics

Electrical Characteristics Ta=25						a=25°C
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BVCEO	Ic=-2mA, IB=0	-55	-	-	V
Base-Emitter turn on voltage	VBE(ON)	Vce=-5V, Ic=-2mA	-	-	-700	mV
Base-Emitter saturation voltage	$V_{BE(sat)}$	Ic=-100mA, I _B =-5mA	-	-900	-	mV
Collector-Emitter saturation voltage	VCE(sat)	Ic=-100mA, I _B =-5mA	-	-	-650	mV
Collector cut-off current	Ісво	Vcb=-35V, Ie=0	-	-	-15	nA
DC current gain	* hfe	Vce=-5V, Ic=-2mA	110	I	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 \sim 220, B : 200 \sim 450, C : 420 \sim 800

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Electrical Characteristic Curves

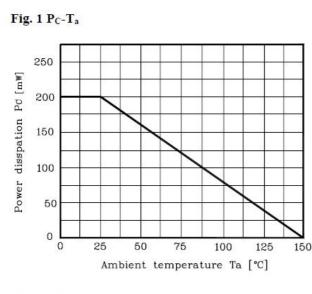


Fig. 3 I_C-V_{CE}

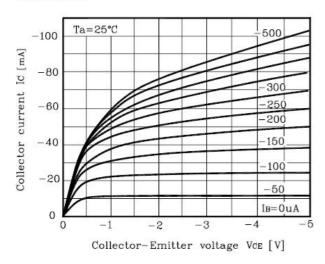
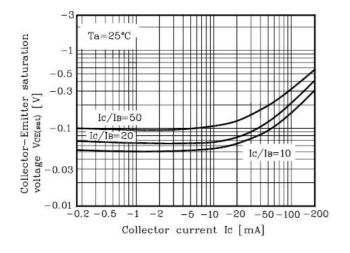
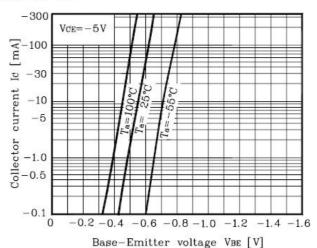


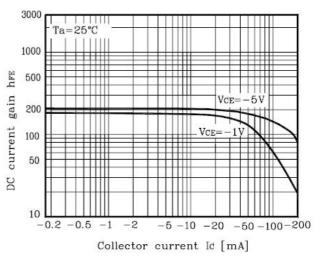
Fig. 5 V_{CE(sat)} -I_C







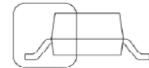




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Outline Dimension

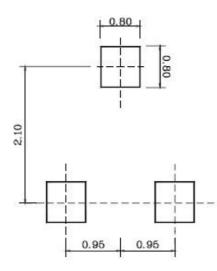






SYMBOL	MILLIMETERS			NOTE
5	MINIMUM	NOMINAL	MAXIMUM	NOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
b	0.39	0.42	0.45	
c	0.09	0.12	0.15	
D	2.80	2.90	3.00	
E	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	-	-	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



KBC856

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