KBC807 16/25/40C

PNP Silicon Transistor

产品规格书

批准	审 核	校核	编制
纪春华	朴致均	赵宇辉	郑羿
2018.08.06	2018.08.06	2018.08.06	2018.08.06

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	2017.07.22	阎平
2	增加封页	001	2018.01.12	郑羿
3	增加 BV 测试条件 增加 HFE 测试项目	002	2018.08.06	郑羿

KODENSHI AUK

KBC807 16/25/40C

PNP Silicon Transistor

Descriptions

•High current application •Switching application

Features

- Suitable for AF-Driver stage and Low power output stage
- Complementary pair with KBC817

Ordering Information

Type NO.	Marking	Package Code
KBC807	$\frac{\mathbf{LA}}{(1)} \stackrel{\square}{=} \stackrel{\square_{\bullet}}{=}$	SOT-23

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

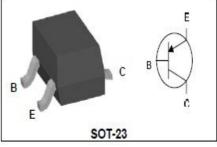
Absolute maximum ratings

Absolute maximum ratings			Ta=25°C
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	-50	V
Collector-Emitter voltage	V _{CEO}	-45	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-500	mA
Collector dissipation	P _C	200	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-50~150	°C

Electrical Characteristics

					a-23 C	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BVCEO	Ic=-1mA, IB=0	-45	-	-	V
Collector-Base breakdown voltage	ВVсво	Ic=-0.05mA, IE=0	-50	-	-	V
Emitter-base breakdown voltage	ВVев	IE=-0.05mA, Ic=0	-5	-	-	V
Base-Emitter turn on voltage	VBE(ON)	Vce=-1V, Ic=-300mA	-	-	-1.2	V
Collector-Emitter saturation voltage	VCE(sat)	Ic=-500mA, I _B =-50mA	-	-	-700	mV
Collector cut-off current	Ісво	Vcb=-25V, Ie=0	-	-	-100	nA
DC current gain	hfe	V _{CE} =-1V, I _C =-100mA	100	-	630	
DC current gain	hfe	Vce=-1V, Ic=-500mA	45	-	-	
Transition frequency	f⊤	V _{CB} =-5V, I _E =-10mA f=30MHz	100	-	-	MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz	-	16-	-	pF

PIN Connection



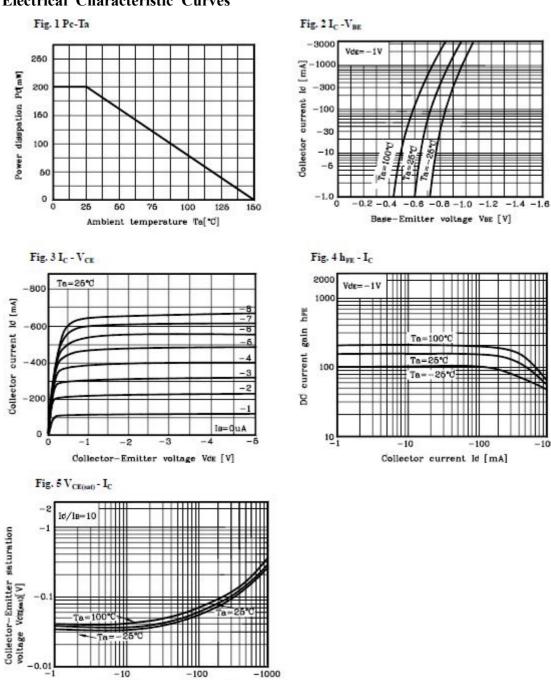
Ta=25°C

KBC807 16/25/40C

-1000

HFE Grade:

Rank	16(A)	25(B)	40(C)
Range	100~250	160~400	250~630
Mark Name	LAA.	LAB.	LAC.

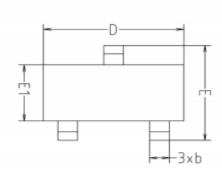


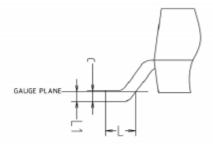
Collector current Id [mA]

Electrical Characteristic Curves

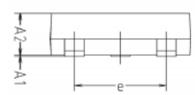
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Outline Dimension







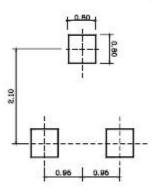




SEE DETAIL 'A'

SYMBOL		NOTE		
5111000	MINIMUM	NOMINAL	MAXIMUM	NOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
b	0.39	0.42	0.45	
с	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]



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