KODENSHI AUK

Descriptions

- General purpose small signal amplifier
- Switching application

Features

- Collector saturation voltage:
- $V_{CE(sat)}$ =-0.5V(Max.) @ Ic=-50mA, IB=-5mA
- Low output capacitance:
- $C_{\text{ob}}{=}4.5pF(\text{Max.}) @ V_{\text{CB}}{=}{-}5V, I_{\text{E}}{=}0, f{=}1\text{MHz}$
- Complementary pair with KTN3904S

Ordering Information

Type NO.	Marking	Package Code		
KTN3906S	JA 🗌 🛛	SOT-23		

 $\textcircled{\sc 1} Device \ Code \ \ \textcircled{\sc 2}$ Year& Week Code $\ \ \bullet \ \ Dalian$

Absolute maximumratings

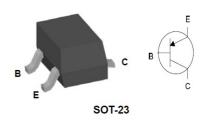
Absolute maximum atings			$(1a=25^{\circ})$
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	-40	V
Collector-Emitter voltage	VCEO	-40	V
Emitter-Base voltage	VEBO	-5	V
Collector current	Ic	-100	mA
Collector power dissipation	* Pc	350	mW
Junction temperature	τ	150	°C
Storage temperature range	Tstg	-50~150	°C

* : Package mounted on 99.5% alumina 10×8×0.6mm

Electrical Characteristics

Electrical Characteristics (1)				a=25°C)		
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	ВУсво	Ic=-10 μ Α, Iε=0	-40	-	-	V
Collector-Emitter breakdown voltage	BVCEO	Ic=-1mА, Iв=0	-40	-	-	V
Emitter-Base breakdown voltage	BVEBO	Iε=-10 μ A, Ic=0	-5	-	-	V
Collector cut-off current	Ісво	V _{CB} =-40V, I _E = 0	-	-	-0.1	μ A
DC current gain	hfe	VCE=-1V, IC=-10mA	100	-	300	-
Collector-Emitter saturation voltage	VCE(sat)	Ic=-50mA, IB=-5mA	-	-	-0.5	V
Transition frequency	fτ	Vce=-20V, Ic=-10mA	250	-	-	MHz
Collector output capacitance	Cob	V_{CB} =-5V, IE=0, f=1MHz	-	-	4.5	pF

PIN Connection



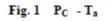
(Ta=25°C)

(To-25°C)

KTN3906S

PNP Silicon Transistor

Electrical Characteristic Curves





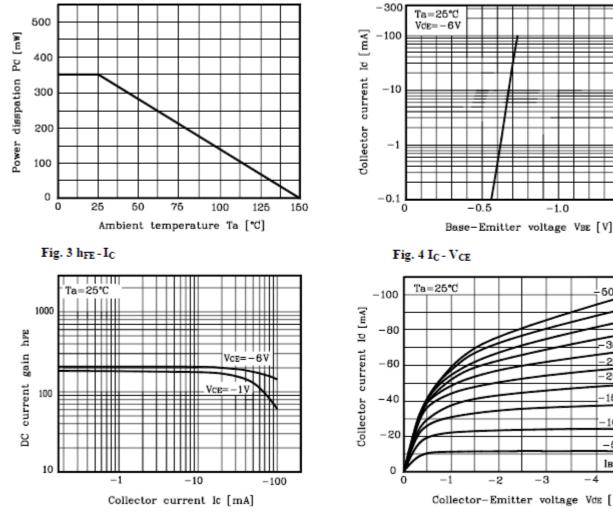
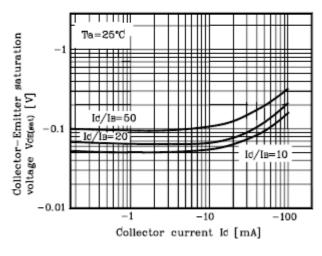
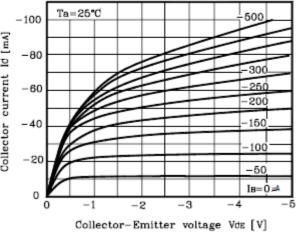


Fig. 5 VCE(sat) - IC



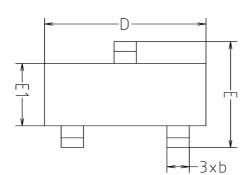


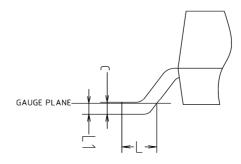
-1.0

-1.5

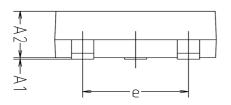
KTN3906S

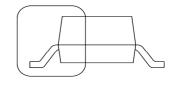
Outline Dimensions





DETAIL 'A'

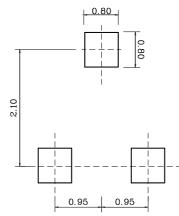




SEE DETAIL 'A'

SYMBOL	MILLIMETERS			NOTE
1 STREEL	MINIMUM	NOMINAL	MAXIMUM	
A1	0.00	-	0.10	
A2	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	
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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