

EXECUTE AUK

PNP Silicon Transistor

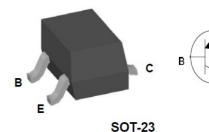
Descriptions

- General purpose application
- Switching application

Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with KTN2222AS

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
KTN2907AS	<u>WA</u> □ • ① ②	SOT-23

①Device Code ② Year& Week Code • Dalian

Absolute Maximum Ratings

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	-60	V
Collector-Emitter voltage	Vceo	-50	V
Emitter-Base voltage	V EBO	-5	V
Collector current	Ic	-600	mA
Collector dissipation	Pc	350	mW
Junction temperature	Tj	150	$^{\circ}$
Storage temperature	Tstg	-55~150	$^{\circ}$

^{* :} Package mounted on 99.5% Alumina $10 \times 8 \times 0.1$ mm.

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	ВVсво	Ic=-10 μ A, Iε=0	-60	-	-	V
Collector-Emitter breakdown voltage	BVceo	Ic=-10mA, I _B =0	-50	-	-	V
Emitter-Base breakdown voltage	ВVево	I _E =-10 μ A, I _C =0	-5	ı	-	V
Collector cut-off current	Ісво	V _{CB} =-60V, I _E =0	-	ı	-10	nA
DC current gain	hfe	VcE=-10V, Ic=-10mA	75	ı	-	ı
Collector-Emitter saturation voltage	VCE(sat)	Ic=-150mA, Iв=-15mA	-	ı	-0.4	٧
Transition frequency	f⊤	Vce=-20V, Ic=-20mA	250	-	-	MHz
Collector output capacitance	Соь	V _{CB} =-10V, I _E =0, f=1MHz	-	6.0	-	pF

Electrical Characteristic Curves

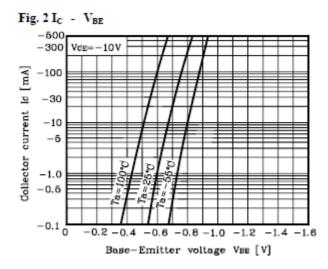
Fig. 1 P_C - T_a 500 Power disspation Pd [m₩] 400 300 200

50

100

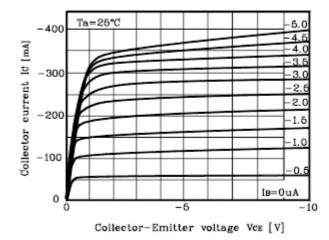
Ambient temperature Ta [°C]

150





100





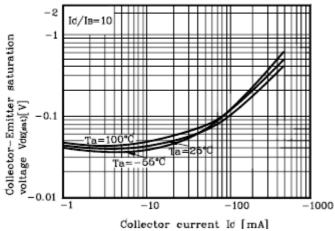


Fig. 5 hFE - Ic

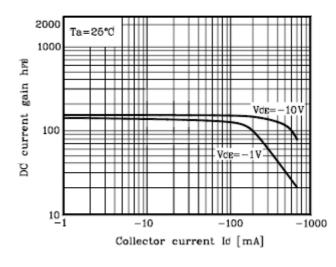
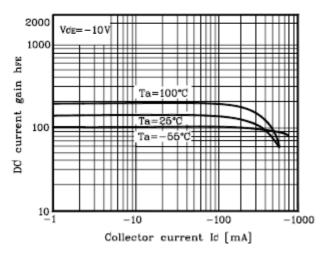
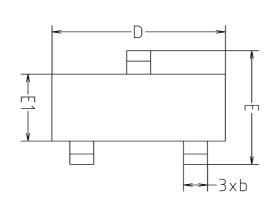


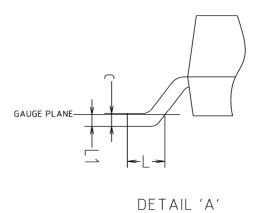
Fig. 6 hFE - IC

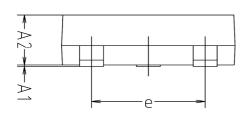


KTN2907AS

Outline Dimension



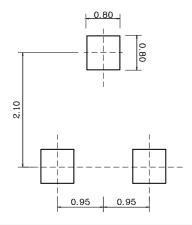






SYMBOL	MILLIMETERS			NOTE
STINDOL	MINIMUM	NOMINAL	MAXIMUM	
Α1	0.00	-	0.10	
A 2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	_	_	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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