

STN2907S

PNP Silicon Transistor

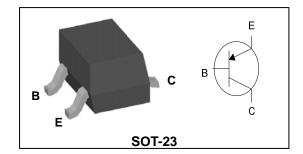
Descriptions

- General purpose application
- Switching application

Features

- Large collector current: I_C=-600mA
- Low collector saturation voltage: $V_{CE(sat)}$ =-0.4V(Max.) @ I_{C} =-150mA, I_{B} =-15mA
- Complementary pair with STN2222S

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
STN2907S	<u>GA</u> <u>□</u> ① ②	SOT-23

① Device Code ② Year&Week Code

Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base voltage	V_{CBO}	-60	V	
Collector-Emitter voltage	V _{CEO} -40		V	
Emitter-Base voltage	V_{EBO}	-5	V	
Collector current	I _C	-600	mA	
Collector power dissipation	P _C *	350	mW	
Junction temperature	TJ	150	°C	
Storage temperature range	T_{stg}	-55~150	°C	

^{* :} Package mounted on 99.5% Alumina 10×8×0.6mm.

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = -10 \mu A, I_E = 0$	-60	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1mA$, $I_B=0$	-40	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = -60V, I_{E} = 0$	-	-	-10	nA
DC current gain	h _{FE}	$V_{CE} = -10V, I_{C} = -10mA$	75	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =-150mA, I _B =-15mA	-	-	-0.4	V
Transition frequency	f _T	$V_{CE} = -20V, I_{C} = -20mA$	250	-	-	MHz
Collector output capacitance	C _{ob}	$V_{CB}=-10V$, $I_{E}=0$, $f=1MHz$	-	6.0	-	рF

Electrical Characteristic Curves

Fig. $1 P_C - T_a$

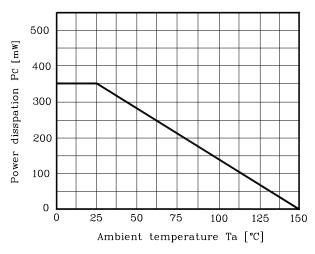


Fig. 3 I $_{\text{C}}$ - $\,V_{\text{CE}}$

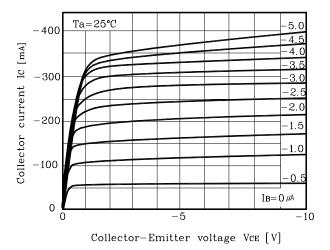


Fig. 5 h_{FE} - I_C

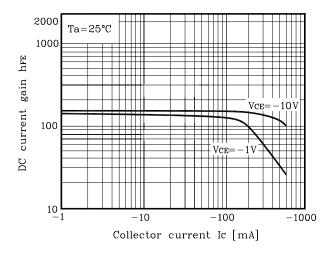


Fig. 2 $I_{C}\,$ - $\,V_{BE}\,$

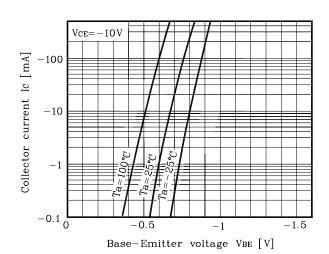


Fig. 4 $V_{CE(sat)}$ - I_{C}

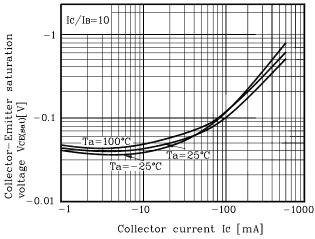
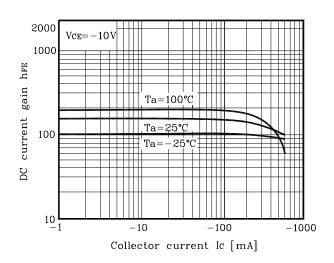


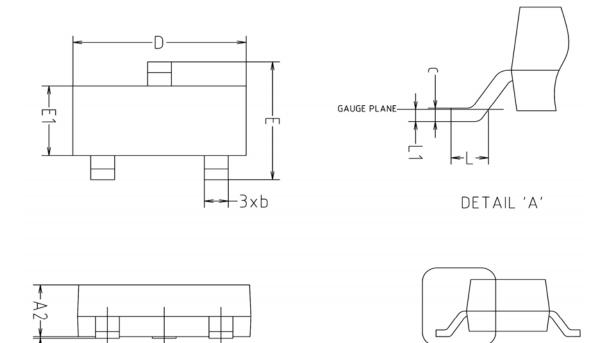
Fig. 6 h_{FE} - I_C

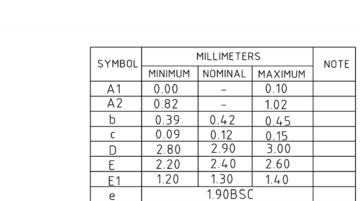


KSD-T5C080-000

2

Outline Dimension

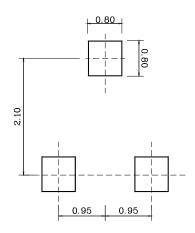




0.20

***Recommend PCB solder land [Unit: mm]**

0.12BSC



KSD-T5C080-000

3

SEE DETAIL 'A'

The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.

KSD-T5C080-000