

STN2907AS

PNP Silicon Transistor

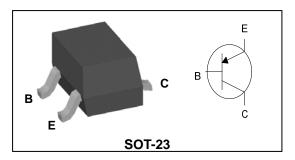
Descriptions

- General purpose application
- Switching application

Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2222AS

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
STN2907AS	<u>₩A</u> □ 0 2	SOT-23

① Device Code ② Year&Week Code

Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-60	V
Collector-Emitter voltage	V_{CEO}	-50	V
Emitter-Base voltage	V_{EBO}	-5	V
Collector current	I _C	-600	mA
Collector dissipation	P _C *	350	mW
Junction temperature	Tj	150	°C
Storage temperature	T_{stg}	-55~150	°C

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

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}	$I_{C} = -10 \text{mA}, I_{B} = 0$	-50	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = -60V$, $I_{E} = 0$	-	ı	-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

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Electrical Characteristic Curves

Fig. 1 P_C - T_a

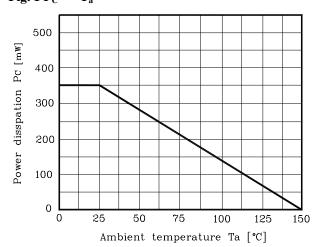


Fig. 2 $I_{\text{C}}\,$ - $\,V_{\text{BE}}$

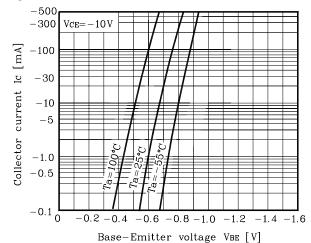


Fig. 3 $I_{\,C}$ - $\,V_{CE}$

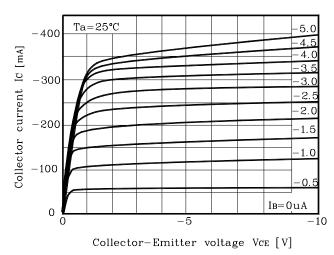


Fig. 4 $V_{CE(sat)}$ - I_C

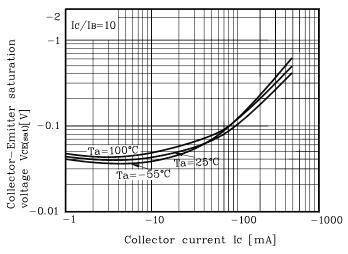


Fig. 5 h_{FE} - I_{C}

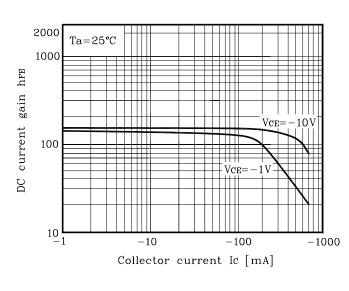
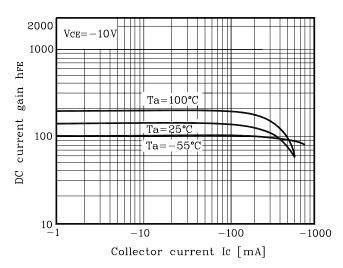


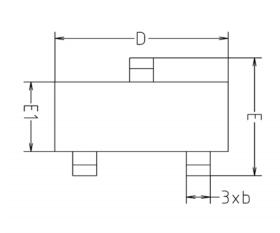
Fig. 6 h_{FE} - I_{C}

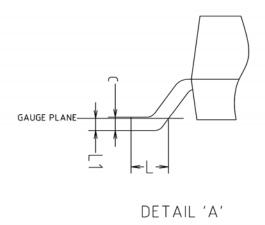


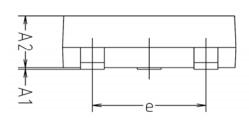
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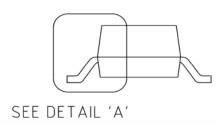
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Outline Dimension



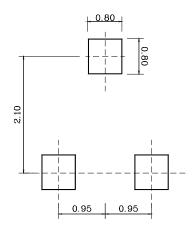






SYMBOL	MILLIMETERS			NOTE
STILLOCE	MINIMUM	NOMINAL	MAXIMUM	NOTE
A1	0.00	-	0.10	
A2	0.82	-	1.02	
Ь	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
Е	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
е	1.90BSC			
L	0.20	-	-	
L1	0.12BSC			

*Recommend PCB solder land [Unit: mm]



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