

PNP Silicon Transistor

Ta=25°C

Descriptions

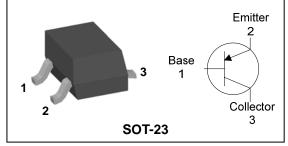
- General purpose application
- Switching application

Features

- Low Leakage current
- Low collector saturation voltage enabling low voltage operation
- Complementary pair with SBT2222

Ordering Information

PIN Connection



Type NO.	Marking	Package Code
SBT2907	<u>2B</u> □ ① ②	SOT-23

 $\textcircled{1} \textsf{Device Code} \textcircled{2} \textsf{Year} \verb"Week Code"$

Absolute maximum ratings

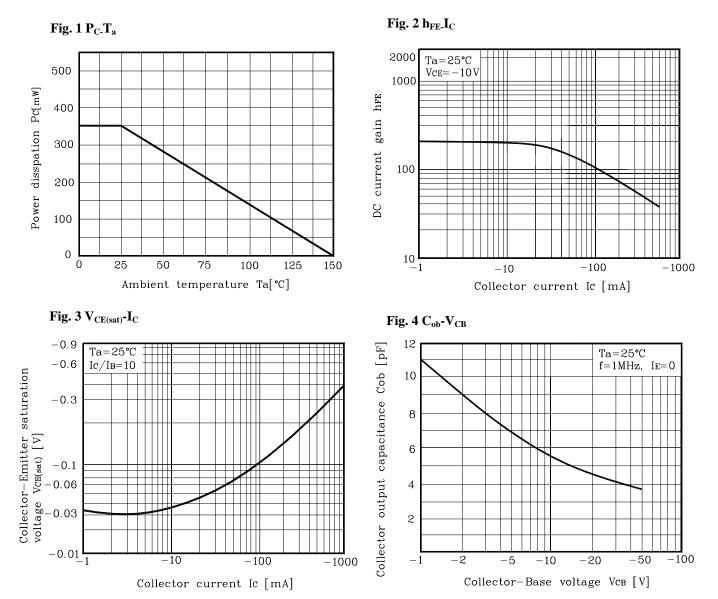
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	-60	V
Collector-Emitter voltage	V _{CEO}	-40	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ι _C	-600	mA
Collector dissipation	P _C *	350	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

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

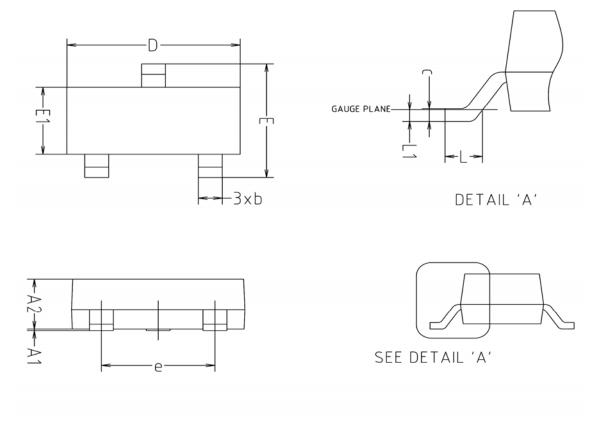
Electrical Characteristics

Electrical Characteristics Ta=25°C						=25°C
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I_{c} =-10µA, 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 =-10μA, I _C =0	-5	-	-	V
Collector cut-off current	I _{CBO}	V_{CB} =-40V, I_E =0	-	-	-20	nA
DC current gain	h _{FE}	V_{CE} =-10V, I_{C} =-10mA	100	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _c =-150mA, I _B =-15mA	-	-	-0.4	V
Transition frequency	f _T	V_{CE} =-5.0V, I _C =-20mA, f=100MHz	200	-	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f=1MHz	-	-	8	pF
Turn-on time	t _{on}		-	-	45	ns
Delay time	t _d	$V_{CC} = -30V_{dc}, I_C = -150mA_{dc}, I_{B1} = -15mA_{dc}$	-	-	10	ns
Rise time	t _r		-	-	40	ns
Turn-off time	t _{off}		-	-	100	ns
Storage time	ts	$V_{CC} = -6.0V_{dc}, I_C = -150mA_{dc}, I_{B1} = I_{B2} = -15mA_{dc}$	-	-	80	ns
Fall time	t _f		-	-	30	ns

Electrical Characteristic Curves

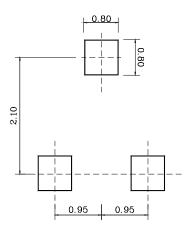


Outline Dimension



SYMBOL	MILLIMETERS			NOTE
STIDUL	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	
E	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
e	1.90BSC			
L	0.20	-	-	
L1		0.12BSC		

*Recommend PCB solder land [Unit: mm]



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