

SBT2907AUF

PNP Silicon Transistor

Descriptions

- General purpose application
- Switching application

Features

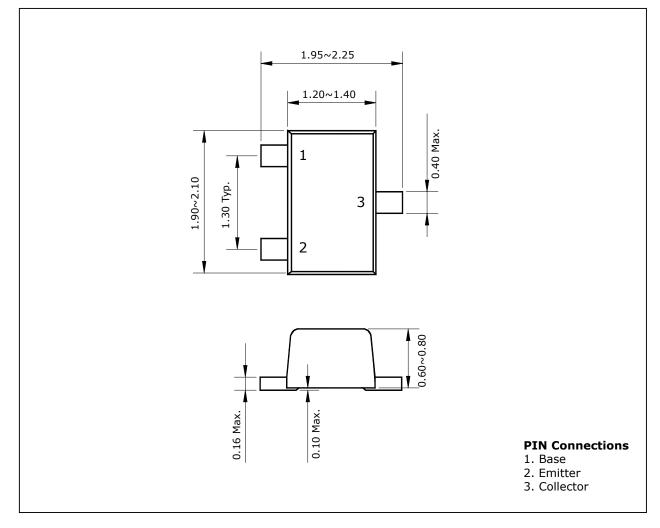
- Low Leakage current
- Low collector saturation voltage enabling low voltage operation
- Complementary pair with SBT2222AUF

Ordering Information

Type NO.	Marking	Package Code
SBT2907AUF	F2	SOT-323F

Outline Dimensions

unit : mm



SBT2907AUF

Absolute maximum ratings

Absolute maximum ratings		Ta=25°C			
Characteristic	Symbol	Ratings	Unit		
Collector-Base voltage	V _{CBO}	-60	V		
Collector-Emitter voltage	V _{CEO}	-60	V		
Emitter-base voltage	V _{EBO}	-5	V		
Collector current	I _C	-600	mA		
Collector dissipation	P _C *	350	mW		
Junction temperature	T _j	150	°C		
Storage temperature range	T _{stg}	-55~150	°C		

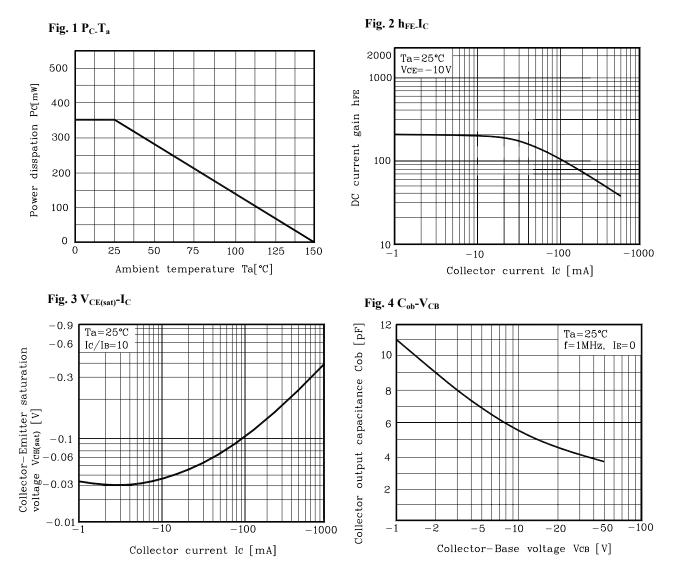
* : Package mounted on 99.5% alumina 10×8×0.6mm

Flectrical Characteristics

Electrical Characteristics Ta=25°C							
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Collector-Base breakdown voltage	BV_{CBO}	I_{C} =-10 μ A, I_{E} =0	-60	-	-	V	
Collector-Emitter breakdown voltage	BV_{CEO}	$I_C=-1mA$, $I_B=0$	-60	-	-	V	
Emitter-Base breakdown voltage	BV _{EBO}	I_{E} =-10 μ A, I_{C} =0	-5	-	-	V	
Collector cut-off current	I_{CBO}	V_{CB} =-60V, 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} =-30 V_{dc} , I_{C} =-150m A_{dc} , I_{B1} =-15m A_{dc}	-	-	10	ns	
Rise time	t _r		-	-	40	ns	
Turn-off time	t _{off}		-	-	100	ns	
Storage time	t _s	V_{CC} =-6.0 V_{dc} , I_{C} =-150m A_{dc} , I_{B1} = I_{B2} =-15m A_{dc}	-	-	80	ns	
Fall time	t _f		-	-	30	ns	

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Electrical Characteristic Curves



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