

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

NPN Silicon Transistor

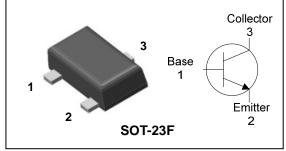
Descriptions

- High current application
- Switching application

Features

- Suitable for AF-Driver stage and low power output stages
- Complementary pair with BC807F

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
BC817F	<u>NA</u> 1 2 3	SOT-23F
	Device Code ObEE Pank 3Vear&Week Code	

①Device Code ②hFE Rank ③Year&Week Code

Absolute maximum ratings

10501000 maximum rumgs			(1a-25 C)
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	50	V
Collector-Emitter voltage	V _{CEO}	35	V
Emitter-Base voltage	V _{EBO}	5	V
Collector current	Ι _C	800	mA
Collector dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

Electrical Characteristics					(Ta=	25°C)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BV _{CEO}	$I_c=1mA$, $I_E=0$	35	-	-	V
Base-Emitter turn on voltage	V _{BE(ON)}	V_{CE} =1V, I_{C} =300mA	-	-	1.2	V
Collector-Emitter saturation voltage	V _{CE(sat)}	I_{c} =500mA, I_{B} =50mA	-	-	700	mV
Collector cut-off current	I _{CBO}	$V_{CB} = 25V, I_E = 0$	-	-	100	nA
DC current gain	h _{FE} *	V_{CE} =1V, I_{C} =100mA	100	-	630	-
Transition frequency	f _T	V_{CB} =5V, I_{C} =10mA	-	100	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =10V, I_{E} =0, f=1MHz	-	16	-	pF
* 1	1.60 400	40(0) 250 (20				

*: $h_{FE} \operatorname{rank} / 16(A)$: 100 ~ 250, 25(B): 160 ~ 400, 40(C): 250 ~ 630

Electrical Characteristic Curves

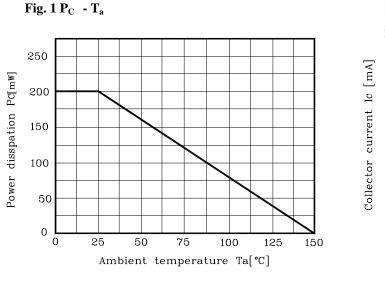


Fig. 3 $I_{C}\$ - V_{CE}

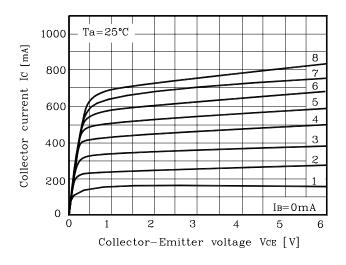
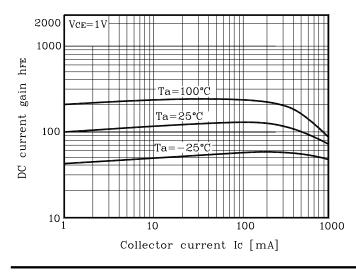
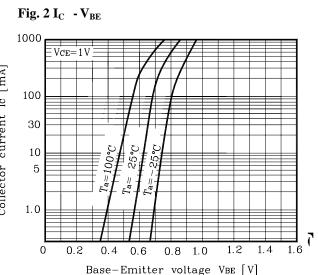
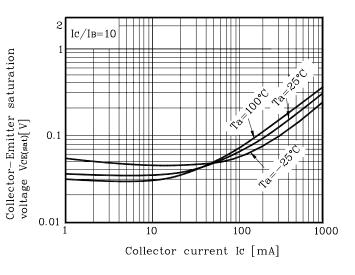


Fig. 5 $h_{FE}\,$ - $\,I_{C}$

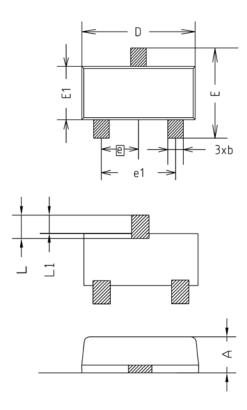


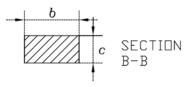


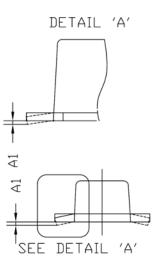




Outline Dimension

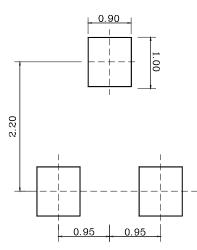






SYMBOL	MILLIMETER(mm)			NOTE
STIDUE	MINIMUM	NOMINAL	MAXIMUM	NUIC
A	0.80	0.90	1.00	
A1	0.00	-	0.10	
b	0.35	0.40	0.45	
С	0.10	0.15	0.20	
D	2.80	2.90	3.00	
E	2.30	2.40	2.50	
E1	1.50	1.60	1.70	
e	0.95BSC			
e1	1.80	1.90	2.00	
L	0.48	0.58	0.68	
L1	0.30	-	0.50	

*Recommend PCB solder land [Unit: mm]



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