

BC807F

PNP Silicon Transistor

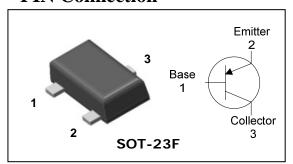
Descriptions

- High current application
- Switching application

Features

- Suitable for AF-Driver stage and low power output stages
- Complementary Pair with BC817F

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
BC807F	<u>LA</u> <u> </u>	SOT-23F

①Device Code ②hFE Rank ③Year&Week Code

Absolute maximum ratings

(Ta=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	I _C	-800	mA
Collector dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-35	ı	-	V
Base-Emitter turn on voltage	V _{BE(ON)}	$V_{CE} = -1V, I_{C} = -300 \text{mA}$	-	ı	-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_E =10mA f=100MHz	-	100	-	MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	16	-	pF

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

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Electrical Characteristic Curves

Fig. 1 Pc-Ta

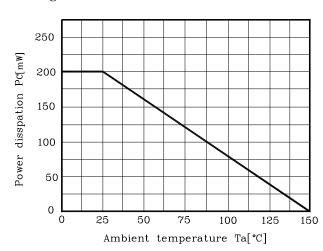


Fig. 2 I_{C} -V $_{\text{BE}}$

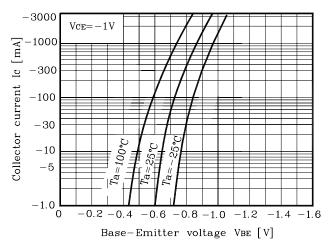


Fig. 3 I_C - V_{CE}

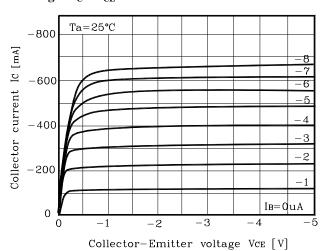


Fig. 4 h_{FE} - I_C

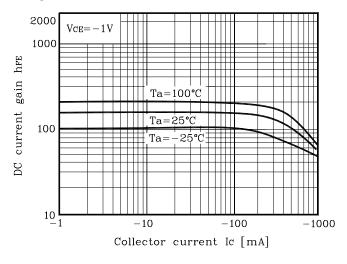
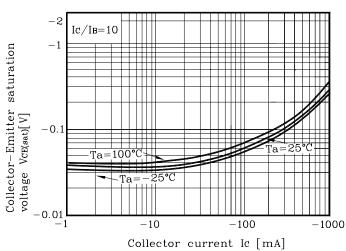
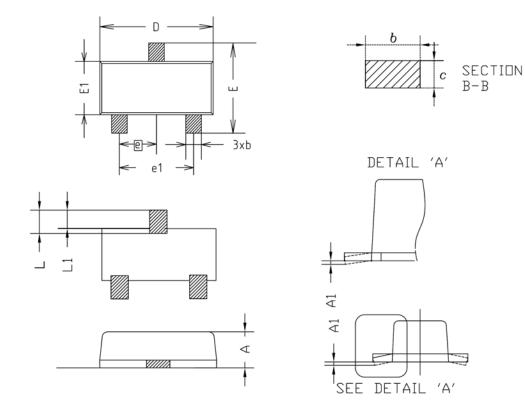


Fig. 5 $V_{\text{CE (sat)}}\text{-}\ I_{\text{C}}$

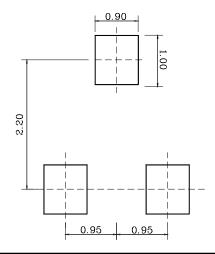


Outline Dimension



SYMBOL	MINIMUM	NOTE		
	MINIMUM		MAXIMUM	
Α	0.80	0.90	1.00	
A1	0.00	_	0.10	
b	0.35	0.40	0.45	
C	0.10	0.15	0.20	
D	2.80	2.90	3.00	
Ε	2.30	2.40	2.50	
E1	1.50	1.60	1.70	
е	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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