



PNP Silicon Transistor

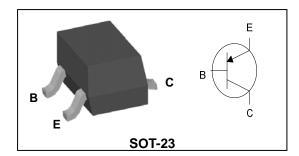
Descriptions

- High current application
- Switching application

Features

- Suitable for AF-Driver stage and low power output stages
- Complementary pair with BC818

PIN Connection



Ordering Information

Type NO.	Marking	Package Code
BC808	$ \underline{MA} \ \underline{\square} \ \underline{\square} $	SOT-23

1) Device Code 2) hFE Rank 3) Year&Week Code

Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-30	V
Collector-Emitter voltage	$V_{\sf CEO}$	-25	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, $I_B=0$	-25	-	-	V
Base-Emitter Turn On voltage	V _{BE(ON)}	$V_{CE} = -1V$, $I_{C} = -300$ mA	-	-	-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	Cob	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

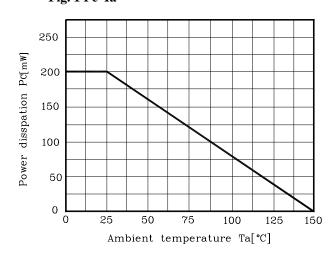


Fig. 2 IC $-V_{BE}$

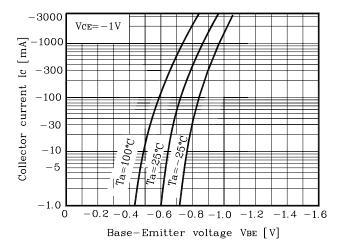


Fig. 3 I_C - V_{CE}

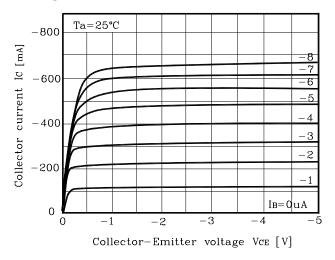
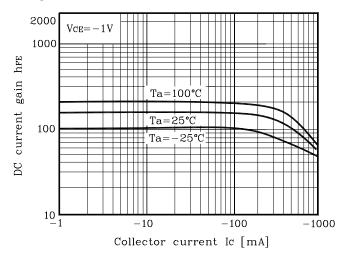
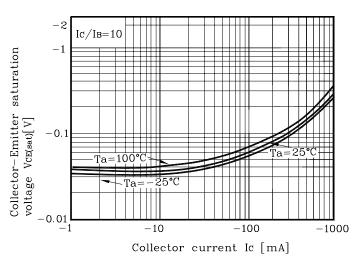


Fig. 4 h_{FE} - I_C



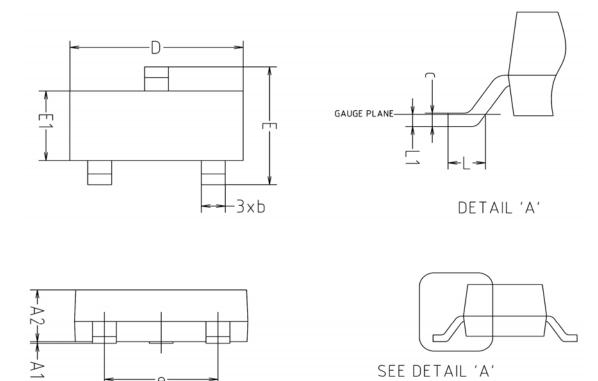
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Fig. 5 $V_{\text{CE(sat)}}$ - I_{C}



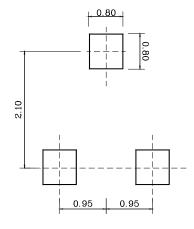
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Outline Dimension



SYMBOL	MILLIMETERS			NOTE	
STIDOL	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		
е	1.90BSC				
L	0.20	-	-		
L1	0.12BSC				

*Recommend PCB solder land [Unit: mm]



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