

BC818

NPN Silicon Transistor

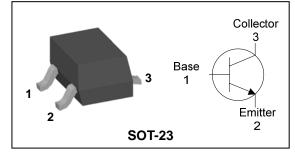
Descriptions

- High current application
- Switching application

Features

- Suitable for AF-Driver stage and low power output stages
- Complementary pair with BC808

PIN Connection



Ordering Information

Type NO.	Marking	Package Code	
BC818	$\frac{PA}{1} \stackrel{\square}{\supseteq} \stackrel{\square}{3}$	SOT-23	

1 Device Code 2 hFE Rank 3 Year&Week Code

Absolute maximum ratings

Absolute maximum ratings			(Ta=25°C)
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V _{CBO}	30	V
Collector-Emitter voltage	V _{CEO}	25	V
Emitter-Base voltage	V _{EBO}	5	V
Collector current	Ι _C	800	mA
Collector dissipation	P _C	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}	$I_{C}=1mA$, $I_{B}=0$	25	-	-	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}	$V_{CB} = 30V, I_{E} = 0$	-	-	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	

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

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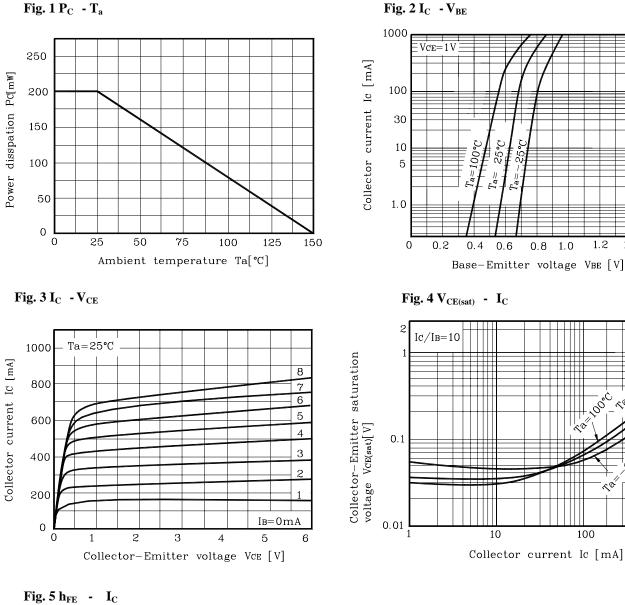
1.4

20

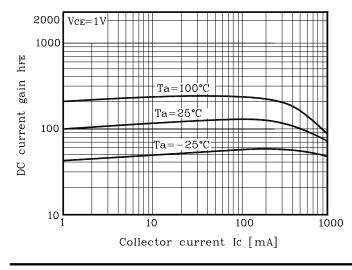
1.6

1000

Electrical Characteristic Curves

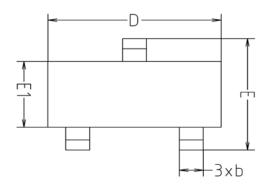


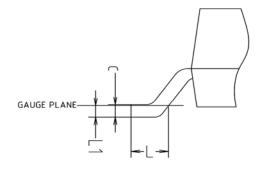




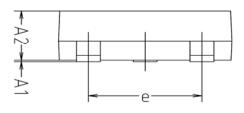
KSD-T5C026-000

Outline Dimension







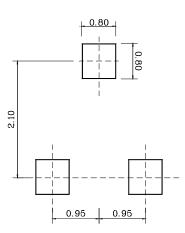




SEE DETAIL 'A'

SYMBOL	MILLIMETERS			NOTE
STRIDUL	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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