

**Descriptions**

- High current application
- Switching application

**Features**

- Suitable for AF-Driver stage and low power output stages
- Complementary pair with BC808F

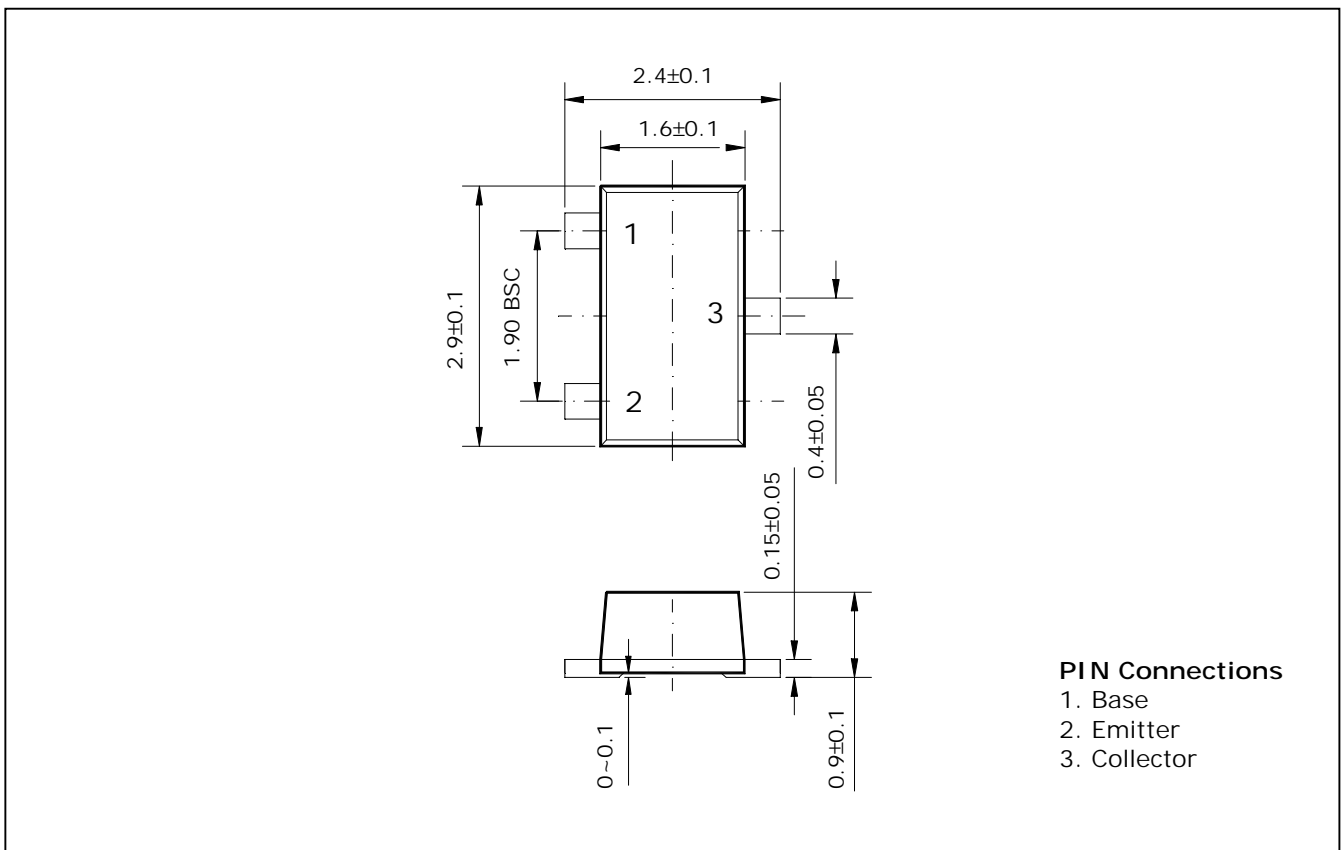
**Ordering Information**

Type NO.	Marking	Package Code
BC818F	PA□	SOT-23F

□ : h<sub>FE</sub> rank

**Outline Dimensions**

**unit : mm**



## 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	$I_C$	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.	Typ.	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

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

Electrical Characteristic Curves

Fig. 1  $P_C - T_a$

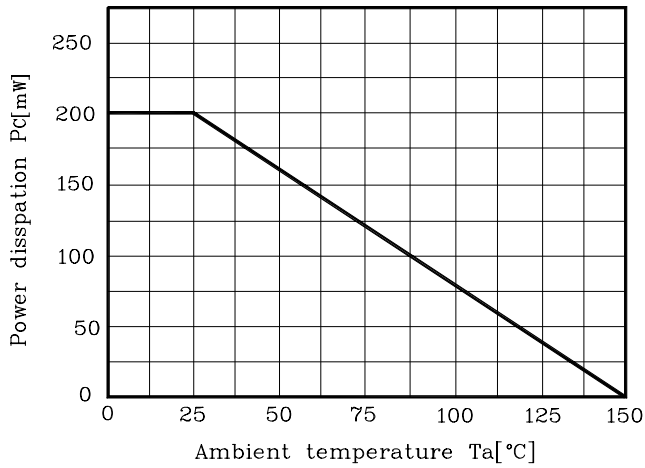


Fig. 2  $I_C - V_{BE}$

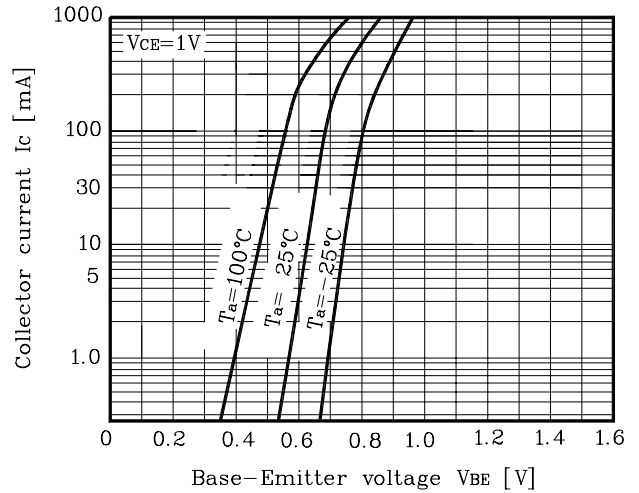


Fig. 3  $I_C - V_{CE}$

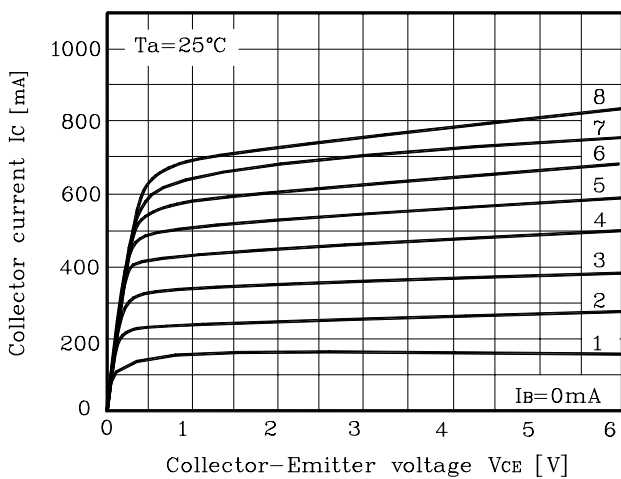


Fig. 4  $V_{CE(sat)} - I_C$

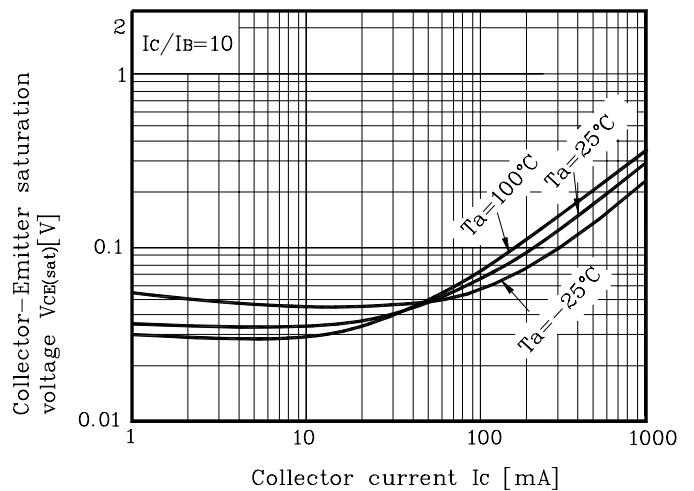


Fig. 5  $h_{FE} - I_C$

