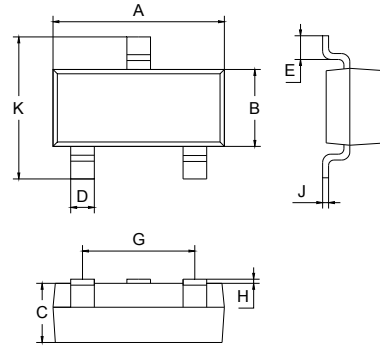


FEATURES

- High collector current.
- High current gain.
- Low collector-emitter saturation voltage.
- Complementary types:BC818.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

ORDERING INFORMATION

Type No.	Marking	Package Code
BC808-16	5E	SOT-23
BC808-25	5F	SOT-23
BC808-40	5G	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

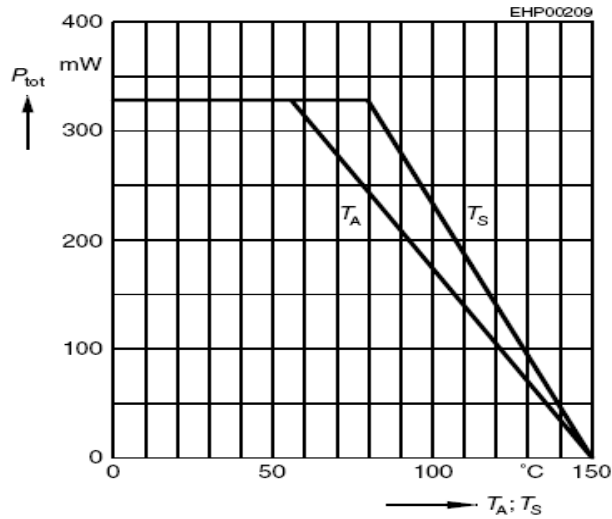
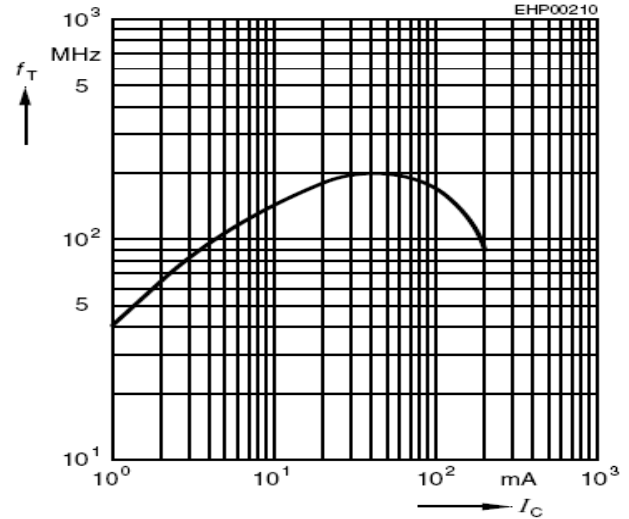
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-500	mA
I _{CM}	Peak collector current	-1	A
I _B	Base current	-100	mA
I _{BM}	Peak base current	-200	mA
P _D	Total Device Dissipation	330	mW
R _{θJA}	Thermal Resistance Junction to Ambient	417	°C/W
T _J , T _{stg}	Junction and Storage Temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA I _E =0	-30		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA I _B =0	-25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-25V I _E =0		-0.1	μ A
Emitter cut-off current	I _{EBO}	V _{CE} =-4V I _C =0		-0.1	μ A
DC current gain	h _{FE}	808-16	100	250	
		808-25	160	400	
		808-40	250	630	
DC current gain	h _{FE}	808-16	60		
		808-25	100		
		808-40	170		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA I _B =-50mA		-0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-500mA I _B =-50mA		-1.2	V
Output capacitance	C _{obo}	V _{CB} =-10V, f=1.0MHz		10	pF
Transition frequency	f _T	V _{CE} =-5V, I _C =-50mA f=100MHz		200	MHz


TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified
Total power dissipation $P_{tot} = f(T_A^*; T_S)$

* Package mounted on epoxy


Transition frequency $f_T = f(I_C)$
 $V_{CE} = 5V$


Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220