

FEATURES

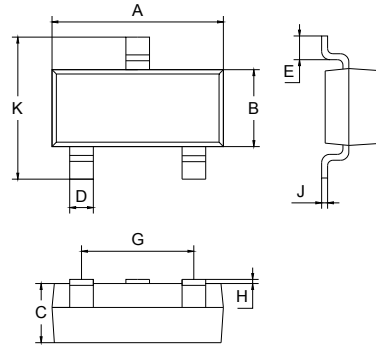
- For general AF application.
- Complementary PNP type available BC808.
- High collector current, high current gain.
- Low collector-emitter saturation voltage.

APPLICATIONS

- General purpose medium power amplifier.

ORDERING INFORMATION

Type No.	Marking	Package Code
BC818-16	6E	SOT-23
BC818-25	6F	SOT-23
BC818-40	6G	SOT-23



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		

SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

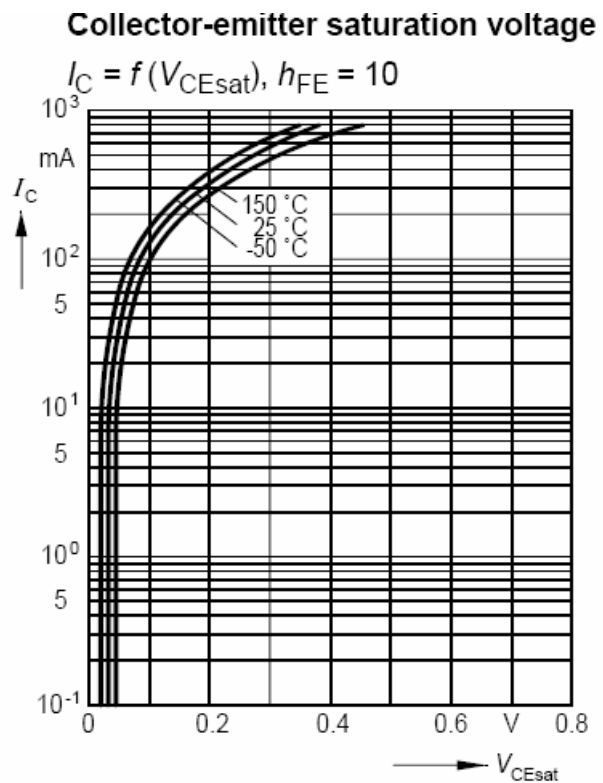
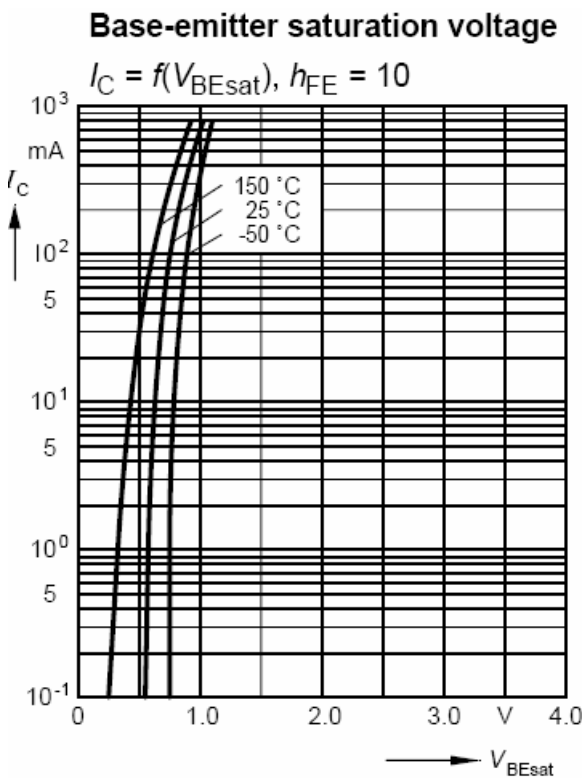
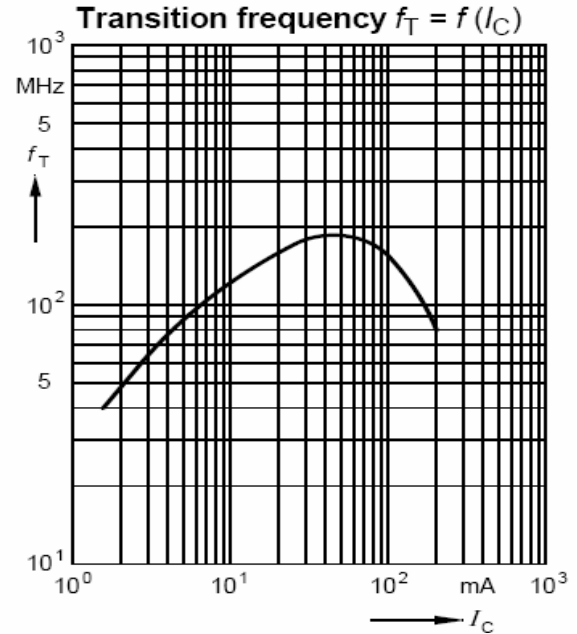
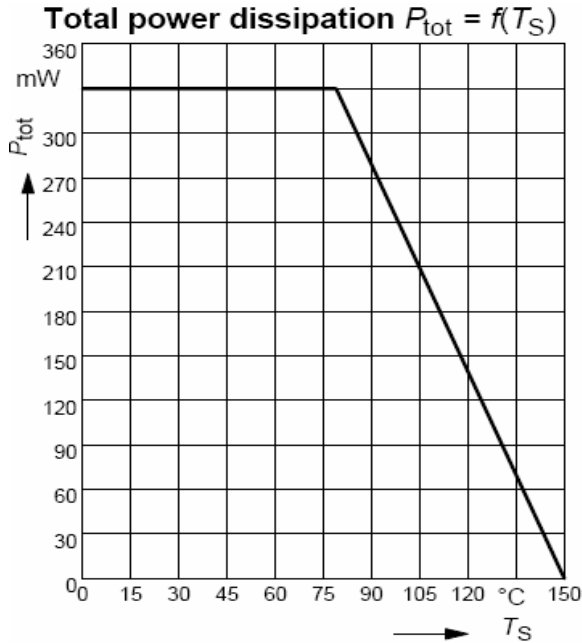
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	500	mA
P _C	Collector Dissipation	330	mW
T _j , T _{stg}	Junction and Storage Temperature	-65 to +150	°C

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 _{EB} =4V I _C =0		0.1	μ A
DC current gain	818-16 818-25 818-40	h _{FE} V _{CE} =1V I _C =100mA	100 160 250	250 400 630	
DC current gain	818-16 818-25 818-40	h _{FE} V _{CE} =1V I _C =300mA	60 100 170		
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
Transition frequency	f _T	V _{CE} =5V, I _C =50mA f=100MHz	170		MHz



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



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