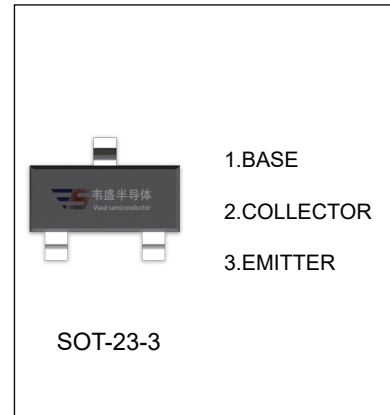


BC818 TRANSISTOR (NPN)

FEATURES

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

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	0.5	A
P _C	Collector Power Dissipation	0.3	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _C = 10μA, I _E =0	30			V
Collector-emitter breakdown voltage	V _{CEO}	I _C = 10mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{EBO}	I _E = 10μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 25 V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 4V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} = 1V, I _C = 100mA	100		630	
	h _{FE(2)}	V _{CE} = 1V, I _C = 300mA	60			
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
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C = 500mA			1.2	V
Collector capacitance	C _{ob}	V _{CB} =10V, f=1MHz		6		pF
Transition frequency	f _T	V _{CE} = 5 V, I _C = 50mA f=100MHz		170		MHz

CLASSIFICATION OF h_{FE}(1)

Rank	BC818-16	BC818-25	BC818-40
Range	100-250	160-400	250-630
Marking	6E	6F	6G

