

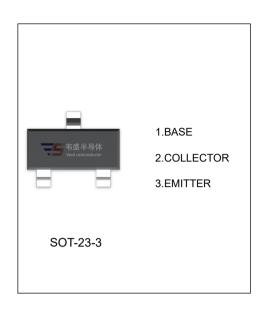
2SB709A TRANSISTOR (PNP)

FEATURES

- For general amplification
- Complementary to 2SD601A

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-45	V	
V _{CEO}	Collector-Emitter Voltage	-45	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current -Continuous	-100	mA	
Pc	Collector Power Dissipation	200	mW	
T_J,T_stg	Operation Junction and Storage Temperature Range	-55-150	°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 = -10 ဩA, I _E =0	-45		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -2mA, I _B =0	-45		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -10 ဩA, I _C =0	-7		V
Collector cut-off current	I _{CBO}	V _{CB} = -20 V, I _E =0		-0.1	
Collector cut-off current	I _{CEO}	V _{CE} = -10V, I _B =0		-100	
DC current gain	h _{FE}	V _{CE} = -10V,I _C = -2mA	160	460	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-100 mA, I _B = -10mA		-0.5	V
Transition frequency	f _T	V _{CE} = -10V, I _C = -1mA f=200MHz	60		MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0 f=1MHz		2.7	pF

CLASSIFICATION OF hFE

Rank	Q	R	S
Range	160-260	210-340	290-460
Marking	BQ1	BR1	BS1



