

2SA812 TRANSISTOR (PNP)

FEATURES

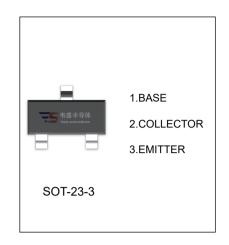
• Complementary to 2SC1623

• High DC Current Gain: h_{FE}=200 TYP.(V_{CE}=-6V,I_C=-1mA)

• High Voltage: V_{ceo}=-50V

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-100	mA
Pc	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range -55 ~		℃



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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μΑ, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100μΑ, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =- 60 V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =- 6V, I _C = -1mA	90		600	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-100mA, I _B = -10mA			-0.3	V
Base-emitter voltage	V _{BE}	I _C =-1mA, V _{CE} =-6V	-0.58		-0.68	V
Transition frequency	f _T	V _{CE} =-6V, I _C = -10mA		180		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MHz		4.5		pF

CLASSIFICATION OF hfe

Rank	M4	M5	M6	M7
Range	90-180	135-270	200-400	300-600
Marking	M4	M5	M6	M7



