

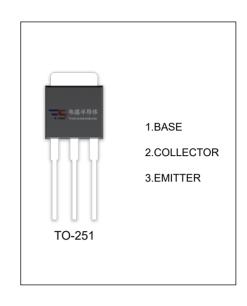
2SB1412 TRANSISTOR (PNP)

FEATURES

Power Amplifier Applications

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-30	٧	
V _{CEO}	Collector-Emitter Voltage	-20	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
Ic	Collector Current –Continuous	-5	А	
Pc	Collector Power Dissipation	1	W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	℃	



ELECTRICAL CHARA CTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μA,I _E =0	-30			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-50μA,I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-20V,I _E =0			-0.5	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-0.5	μA
DC current gain	h _{FE}	V _{CE} =-2V,I _C =-500mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-4A,I _B =-100mA			-1	V
Transition frequency	f _T	V _{CE} =-6V,I _C =-50mA,f=30MHz		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =-20V,I _E =0,f=1MHz		60		pF

CLASSIFICATION OF h FE

Rank	Р	Q	R
Range	82-180	120-270	180-390