

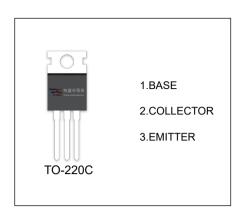
2SB1185 TRANSISTOR (PNP)

FEATURES

- Low Collector Saturation Voltage
- Complement to Type 2SD1762

APPLICATIONS

• For Use in Low Frequency Power Amplifier Applications



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C 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	-3	Α
Pc	Collector Power Dissipation	2	W
R _{0JA}	Thermal Resistance From Junction To Ambient	63	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I_{C} =-50 μ A, 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 =-50μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-40V,I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V,I _C =0			-1	μA
DC current gain	h _{FE} *	V _{CE} =-3V, I _C =-0.5A	60		320	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-2A,I _B =-0.2A			-1	V
Base-emitter saturation voltage	V _{BE (sat)} *	I _C =-2A,I _B =-0.2A			-1.5	V
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0, f=1MHz		50		pF
Transition frequency	f⊤	Vc==-5V,Ic=-0.5A, f=30MHz		70		MHz

^{*}Pulse test

CLASSIFICATION OF h_{FE}

RANK	D	E	F
RANGE	60-120	100-200	160-320