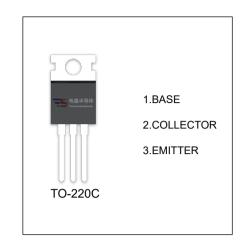


2SB507 TRANSISTOR (PNP)

FEATURES

- Low Collector-Emitter Saturation Voltage Vce(sat)=-1V(MAX)@I_C=-2A,I_B=-0.2A
- DC Current Gain h_{FE}=40~320@IC=-1A
- Complementray to NPN 2SD313



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-3	А
Pc	Collector Power Dissipation	1.75	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-20V, I _E =0			-100	μA
Collector cut-off current	I _{CEO}	V _{CE} =-60V, I _E =0			-5	mA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-1	mA
DC current gain (1)	h _{FE(1)} (1)	V _{CE} =-2V, I _C =-1A	40		320	
Do current gain (*)	h _{FE(2)} (1)	V _{CE} =-2V, I _C =-0.1A	40			
Collector-emitter saturation voltage ⁽¹⁾	V _{CE(sat)} (1)	I _C =-2A, I _B =-200mA			-1	V
Base-emitter voltage ⁽¹⁾	V _{BE} ⁽¹⁾	V _{CE} =-2V, I _C =-1A			-1.5	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-500mA,f=1MHz	5			MHz

⁽¹⁾Pulse Test: Pulse Width=300µs,Duty Cycle≤2.0%

CLASSIFICATION OF h_{FE(1)}

Rank	С	D	E	F
Range	40-80	60-120	100-200	160-320