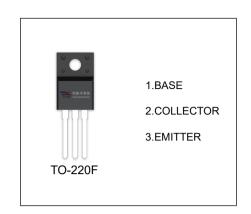


2SA2050 TRANSISTOR (PNP)

FEATURES

- High Breakdown Voltage
- General Purpose Switching and Amplification



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-180	V
V _{CEO}	Collector-Emitter Voltage	-160	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current	-1.5	Α
Pc	Collector Power Dissipation	1.5	W
R _{0JA}	Thermal Resistance From Junction To Ambient	83	°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 =-1mA,I _E =0	-180			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-180V,I _E =0			-10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-10	μA
DC ourrent gain	h _{FE(1)}	V _{CE} =-5V, I _C =-0.2A	60		240	
DC current gain	h _{FE(2)}	V _{CE} =-5V, I _C =-1.5A	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA,I _B =-50mA			-1	V
Transition frequency	f _T	Vc=-10V,Ic=-0.05A	50			MHz

CLASSIFICATION OF h_{FE (1)}

RANK	R	0
RANGE	60-140	100-240