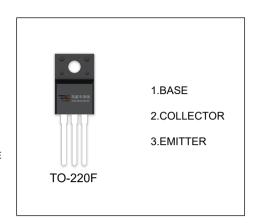


2SB946 TRANSISTOR (PNP)

FEATURES

- Low Collector to Emitter Saturation Voltage V_{CE(sat)}
- Satisfactory Linearity of Forward Current Transfer Ratio h_{FE}
- Large Collector Current I_C



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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-130	V
V _{CEO}	Collector-Emitter Voltage	-80	٧
V _{EBO}	Emitter-Base Voltage	-7	V
Ic	Collector Current	-7	Α
Pc	Collector Power Dissipation	2	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	62.5	°C/W
T_J , T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C =-100uA,I _E =0	-130			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-100uA,I _C =0	-7			V
Collector cut-off current	I _{CBO}	V _{CB} =-100V,I _E =0			-10	uA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-50	uA
DC current gain	h _{FE(1)}	V _{CE} =-2V, I _C =-0.1A	45			
DC current gain	h _{FE(2)}	V _{CE} =-2V, I _C =-3A	60		260	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-5A,I _B =-250mA			-0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =-5A,I _B =-250mA			-1.5	V
Transition frequency	f_{T}	V _{CE} =-10V,I _C =-0.5A, f=10MHz		30		MHz

CLASSIFICATION OF h_{FE(2)}

RANK	R	Q	Р
RANGE	60-120	90-180	130-260