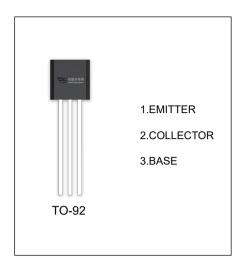


2SA1020 TRANSISTOR (PNP)

FEATURES

Power Amplifier Applications



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1020	TO-92	Bulk	1000pcs/Bag
2SA1020-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-2	Α
P _D	Collector Power Dissipation	625	mW
R ₀ JA	Thermal Resistance from Junction to Ambient	200	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



$T_a \text{=} 25\,^\circ\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA,I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V,I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-1	μA
DC current gain	h _{FE(1)}	V _{CE} =-2V,I _C =-0.5A	70		240	
	h _{FE(2)}	V _{CE} =-2V,I _C =-1.5A	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A,I _B =-50mA			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-1A,I _B =-50mA			-1.2	V
Transition frequency	f _T	V _{CE} =-2V,I _C =-500mA		100		MHz
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0,f=1MHz		40		pF

CLASSIFIC ATION OF h $_{\text{FE}(1)}$

Rank	0	Y
Range	70-140	120-240



