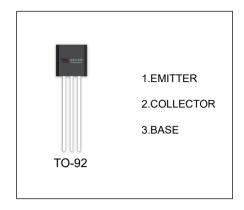


2SA821 TRANSISTOR (PNP)

FEATURES

- High Breakdown Voltage
- Low Transition Frequency



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA821	TO-92	Bulk	1000pcs/Bag
2SA821-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-210	V
V _{CEO}	Collector-Emitter Voltage	-210	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.03	А
P _D	Collector Power Dissipation	250	mW
R ₀ JA	Thermal Resistance from Junction to Ambient	500	°C /W
T_J , T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



T_a =25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -0.05 \text{mA}, I_E = 0$	-210			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA,I _B =0	-210			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.05mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-150V,I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4.5V,I _C =0			-1	μA
DC current gain	h _{FE}	V _{CE} =-3V, I _C =-5mA	56		270	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2mA,I _B =-0.2mA			-0.6	V
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0, f=1MHz		8		pF
Transition frequency	f _T	Vce=-5V,lc= -2mA		50		MHz

CLASSIFICATION OF h_{FE}

RANK	N	Р	Q
RANGE	56-120	82-180	120-270