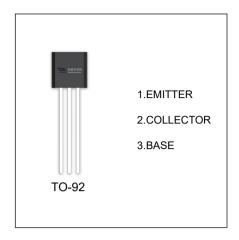


A42 TRANSISTOR (NPN)

FEATURES

High voltage



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
A42	TO-92	Bulk	1000pcs/Bag
A42-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	310	V
V _{CEO}	Collector-Emitter Voltage	305	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	200	mA
I _{CM}	Collector Current - Pulsed	500	mA
Pc	Collector Power Dissipation	625	mW
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C
R _{OJA}	Thermal Resistance, junction to Ambient	200	°C /mW
R _{eJC}	Thermal Resistance, junction to Case	83.3	°C /mW



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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100uA, I _E =0	310			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	305			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =200V, I _E =0			0.25	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μΑ
	h _{FE(1)}	V _{CE} =10V, I _C =1mA	60			
DC current gain	h _{FE(2)}	V _{CE} =10V, I _C =10mA	80		250	
	h _{FE(3)}	V _{CE} =10V, I _C =30mA	75			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =20mA, I _B =2mA			0.2	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =20mA, I _B =2mA			0.9	V
Transition frequency	f _T	V _{CE} =20V, I _C =10mA,f=30MH _Z	50			MHz

CLASSIFICATION OF h_{FE(2)}

Rank	А	В	С
Range	80-100	100-200	200-250



