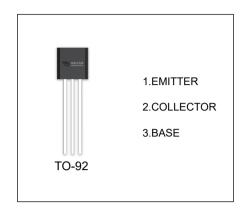


M28S TRANSISTOR (NPN)

FEATURES

High DC Current Gain and Large Current Capability



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
M28S	TO-92	Bulk	1000pcs/Bag
M28S-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Para meter Para meter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	1	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 = 0.1mA ,I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR) CEO}	I _C =1mA,I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =40V,I _E =0			1	μA
Collector cut-off current	I _{CEO}	V _{CE} =20V,I _B =0			5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
	h _{FE(1)}	V _{CE} =1V, I _C =1mA	290			
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =100mA	300		1000	
DC current gain	h _{FE(3)}	V _{CE} =10V, I _C =300mA	300			
	h _{FE(4)}	V _{CE} =1V, I _C =500mA	300			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =600mA,I _B =20mA			0.55	V
Transition frequency	f _T	V _{CE} =10V,I _E =50mA,f=30MHz	100			MHz

CLASSIFICATION OF h_{FE(2)}

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RANK	В	С	D
RANGE	300-550	500-700	650-1000