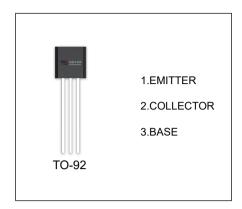


2N3828 TRANSISTOR (NPN)

FEATURES

• General Purpose Amplifier Transistor



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2N3828	TO-92	Bulk	1000pcs/Bag
2N3828-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	3	V	
Ic	Collector Current -Continuous	0.1	Α	
P _D	Collector Power Dissipation	625	mW	
R _{KJA}	Thermal Resistance from Junction to Ambient 200		°C /W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	



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 = 0.01mA,I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	40			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.01mA,I _C =0	3			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	7A
Collector cut-off current	I _{CEX}	V _{CE} =30V,V _{BE} offv=3V			50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	7A
DC current gain	h _{FE}	V _{CE} =1V, I _C =12mA	30		200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA,I _B =5mA			0.3	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =50mA,I _B =5mA			0.95	V
Transition frequency	f _T	Vce=20V,Ic=10mA,f=100 MHz	360			MHz