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2N3906 TRANSISTOR (PNP)



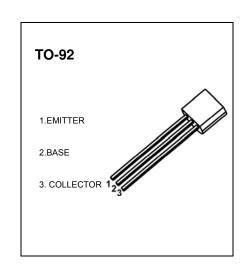
TO-92 Plastic-Encapsulate Transistors

FEATURE

- PNP silicon epitaxial planar transistor for switching and Amplifier applications
- As complementary type, the NPN transistor 2N3904 is Recommended
- This transistor is also available in the SOT-23 case with the type designation MMBT3906

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{СВО}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	age -5		
Ic	Collector Current -Continuous	-0.2	Α	
Pc	Collector Power Dissipation	0.625	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	



ELECTRICAL CHARACTERISTICS (T₂=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -10\mu A, I_E = 0$	-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 = -10μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -40 V,I _E =0			-0.1	μA
Collector cut-off current	I _{CEX}	V _{CE} = -30 V,V _{BE(off)} =-3V			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V , I _C =0			-0.1	μA
	h _{FE1}	V _{CE} =-1 V, I _C = -10mA	100		400	
DC current gain	h _{FE2}	V _{CE} =-1 V, I _C = -50mA	60			
	h _{FE3}	V _{CE} =-1 V, I _C = -100mA	30			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -50mA, I _B = -5mA			-0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -50mA, I _B = -5mA			-0.95	V
Transition frequency	f⊤	V_{CE} =-20V, I_{C} = -10mA f = 100MHz	250			MHz
Delay Time	td	V _{CC} =-3V,V _{BE} =-0.5V,			35	ns
Rise Time	tr	I _C =-10mA,I _{B1} =-1mA			35	ns
Storage Time	ts	V _{CC} =-3V,Ic=-10mA			225	ns
Fall Time	tf	I _{B1} =I _{B2} =-1mA			75	ns

CLASSIFICATION OF hFE1

Rank	0	Υ	G
Range	100-200	200-300	300-400

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Typical Characteristics

2N3906

