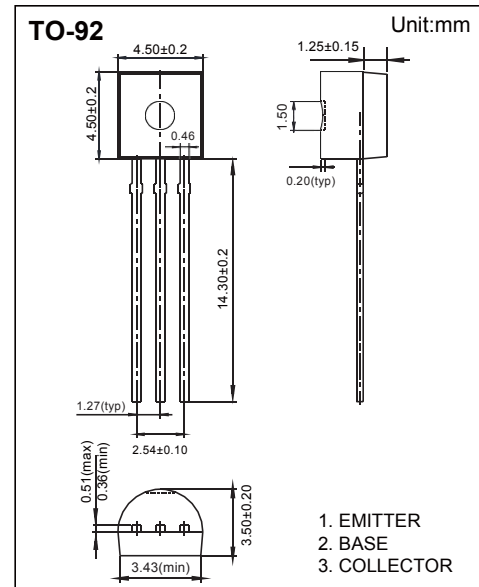


Transistor

PNP Transistors 2N3906

■ Features

- Collector current: $I_C = -0.2A$
- Complementary to 2N3904



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-40	V
Collector - Emitter Voltage	V_{CE0}	-40	
Emitter - Base Voltage	V_{EB0}	-5	
Collector Current - Continuous	I_C	-0.2	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55 to 150	

Transistor

PNP Transistors 2N3906

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Collecto- base breakdown voltage	V _{CB0}	I _C = -100 μA, I _E =0	-40			V	
Collector- emitter breakdown voltage	V _{CEO}	I _C = -1 mA, I _B =0	-40				
Emitter - base breakdown voltage	V _{EB0}	I _E = -100 μA, I _C =0	-5				
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			-0.05		
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50 mA, I _B = -5mA			-0.4	V	
Base - emitter saturation voltage	V _{BE(sat)}	I _C =-50 mA, I _B = -5mA			-0.95		
DC current gain	h _{FE(1)}	V _{CE} = -1V, I _C = -10mA	100		400		
	h _{FE(2)}	V _{CE} = -1V, I _C = -50mA	60				
	h _{FE(3)}	V _{CE} = -1V, I _C = -100mA	30				
Delay Time	t _d	V _{CC} =-3V, V _{BE} =-0.5V, I _C =-10mA, I _{B1} =-1mA			35	ns	
Rise Time	t _r				35		
Storage Time	t _s		V _{CC} =-3V, I _C =-10mA				225
Fall Time	t _f		I _{B1} =I _{B2} =-1mA				75
Transition frequency	f _T	V _{CE} = -20V, I _C = -10mA, f=100MHz	250			MHz	

■ Classification of h_{FE(1)}

Rank	O	Y	G
Range	100-200	200-300	300-400

Transistor

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■ Typical Characteristics

