



ShenzhenTaimaoTechnology Co.,Ltd.

TO-92 Plastic-Encapsulate Transistors

2N5550 TRANSISTOR (NPN)

FEATURES

- Switching and Amplification in High Voltage
- Applications such as Telephony
- Low Current(Max. 600mA)
- High Voltage(Max.160V)

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

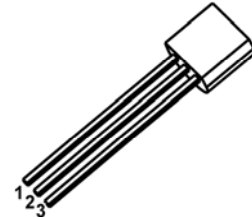
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current -Continuous	0.6	A
P _C	Collector Power Dissipation	0.625	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

TO-92

1.EMITTER

2.BASE

3.COLLECTOR



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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100 μ A, I _E =0	160			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	140			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10 μ A, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =100V, I _E =0			0.1	μ A
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			0.05	μ A
DC current gain	h _{FE(1)}	V _{CE} =5V, I _C =1mA	60			
	h _{FE(2)}	V _{CE} =5V, I _C =10mA	60		250	
	h _{FE(3)}	V _{CE} =5V, I _C =50mA	20			
Collector-emitter saturation voltage	V _{CEsat}	I _C = 10mA, I _B =1mA I _C = 50mA, I _B =5mA			0.15 0.25	V
Base-emitter saturation voltage	V _{BEsat}	I _C = 10mA, I _B =1mA I _C = 50mA, I _B =5 mA			1 1.2	V
Transition frequency	f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100		300	MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			6	pF
Noise figure	NF	V _{CE} =5V, I _C =0.25mA, f=1KHZ, R _s =1kΩ			10	dB