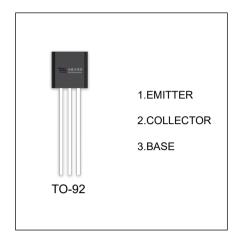


2N5550 TRANSISTOR (NPN)

FEATURES

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



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2N5550	TO-92	Bulk	1000pcs/Bag
2N5550-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta =25 ℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Coll ector-Base Voltage	160	V
V _{CEO}	Coll ector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	0.6	А
Pc	Collector Power Dissipation	0.625	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	℃



T_a=25 °C unless otherwise specified

Parameter Symbol Test conditions Unit Min Тур Max Collector-base breakdown voltage 160 V V_{(BR)CBO} $I_{C}=100$ $A_{I}_{E}=0$ Collector-emitter breakdown V_{(BR)CEO} $I_C=1mA$, $I_B=0$ 140 V voltage 6 V Emitter-base breakdown voltage $V_{(BR)EBO}$ $I_E=10$ A, $I_C=0$ Collector cut-off current I_{CBO} $V_{CB} = 100V, I_{E} = 0$ 0.1 Α **Emitter cut-off current** V_{EB} =4V, I_{C} =0 0.05 I_{EBO} Α h_{FE(1)} $V_{CE}=5V,I_{C}=1mA$ 60 DC current gain $h_{FE(2)}$ $V_{CE}=5V,I_{C}=10mA$ 60 250 $h_{FE(3)}$ $V_{CE}=5V,I_{C}=50mA$ 20 I_C= 10mA, I_B=1mA 0.15 Collector-emitter saturation voltage $V_{\text{CEsat}} \\$ V 0.25 I_C = 50mA, I_B =5mA I_C= 10mA, I_B=1mA Base-emitter saturation voltage V V_{BEsat} 1.2 I_C = 50mA, I_B =5 mA **Transition frequency** $V_{CE}=10V,I_{C}=10mA,f=100MHz$ 100 300 MHz f_T Collector output capacitance C_{ob} $V_{CB}=10V,I_{E}=0,f=1MHz$ 6 рF V_{CE}=5V,I_c=0.25mA, NF 10 dΒ Noise figure f=1KHZ,Rs=1kΩ



