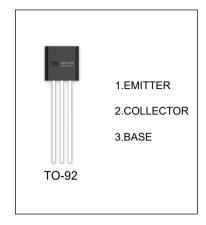


# 2N4403 TRANSISTOR (PNP)

### **FEATURES**

Power dissipation



#### **ORDERING INFORMATION**

Part Number	Package	Packing Method	Pack Quantity
2N4403	TO-92	Bulk	1000pcs/Bag
2N4403-TA	TO-92	Таре	2000pcs/Box

### MAXIMUM RATINGS (Ta=25 ℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-40	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
Ic	Collector Currnet -Continuous	-600	mA
Pc	Collector Power dissipation	0.625	W
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55 +150	°C
R <sub>ΘJA</sub>	Thermal Resistance, junction to Ambient	200	°C/W



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Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-100μA,I <sub>E</sub> =0	-40			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-1mA,I <sub>B</sub> =0	-40			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-100μA,I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-35V,I <sub>E</sub> =0			-100	nA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-5V,I <sub>C</sub> =0			-100	nA
	h <sub>FE(1)</sub>	V <sub>CE</sub> =-1V,I <sub>C</sub> =-0.1mA	30			
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-1V,I <sub>C</sub> =-1mA	60			
DC current gain	h <sub>FE(3)</sub>	V <sub>CE</sub> =-1V,I <sub>C</sub> =-10mA	100			
	h <sub>FE(4)</sub>	V <sub>CE</sub> =-2V,I <sub>C</sub> =-150mA	100		300	
	h <sub>FE(5)</sub>	V <sub>CE</sub> =-2V,I <sub>C</sub> =-500mA	20			
Collector emitter esturation valtage	V <sub>CE(sat)1</sub>	I <sub>C</sub> =-150mA,I <sub>B</sub> =-15mA			-0.4	V
Collector-emitter saturation voltage	V <sub>CE(sat)2</sub>	I <sub>C</sub> =-500mA,I <sub>B</sub> =-50mA			-0.75	V
Base-emitter saturation voltage	V <sub>BE(sat)1</sub>	I <sub>C</sub> =-150mA,I <sub>B</sub> =-15mA	-0.75		-0.95	V
	V <sub>BE(sat)2</sub>	I <sub>C</sub> =-500mA,I <sub>B</sub> =-50mA			-1.3	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-10V,I <sub>C</sub> =-20mA,f=100MHz	200			MHz
Collector capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V,I <sub>E</sub> =0,f=100KHz			8.5	pF
Delay time	t <sub>d</sub>				15	ns
Rise time	t <sub>r</sub>	V <sub>CC</sub> =-30V, I <sub>C</sub> =-150mA			20	ns
Storage time	ts	I <sub>B1</sub> =- I <sub>B2</sub> =-15mA			225	ns
Fall time	t <sub>f</sub>				30	ns



