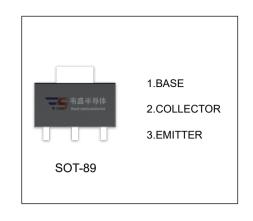


2SA554 TRANSISTOR (PNP)

## **FEATURES**

- Low Saturation Voltage
- High Speed Switching



## MAXIMUM RATINGS (T<sub>a</sub>=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-100	V
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V
Ic	Collector Current	-2	А
Pc	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	°C/W
T <sub>J</sub> ,T <sub>STG</sub>	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T<sub>2</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = -0.1mA,I <sub>E</sub> =0	-100			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-1mA,I <sub>B</sub> =0	-100			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-0.1mA,I <sub>C</sub> =0	-6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-100V,I <sub>E</sub> =0			-1	uA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-4V,I <sub>C</sub> =0			-1	uA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =-3V, I <sub>C</sub> =-100mA	120		270	
	V <sub>CE(sat)</sub>	I <sub>C</sub> =-0.5A,I <sub>B</sub> =-25mA			-0.2	V
Collector-emitter saturation voltage		I <sub>C</sub> =-1A,I <sub>B</sub> =-50mA			-0.3	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V,I <sub>E</sub> =0, f=1MHz		32		pF
Transition frequency	f <sub>T</sub>	Vc=-5V,lc= -0.1A	30			MHz



