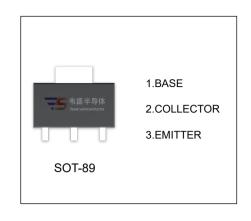


2SC554 TRANSISTOR (NPN)

FEATURES

- Low Saturation Voltage
- High Speed Switching



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol Pa	ra meter	Value	Unit
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	2	Α
Pc	Collector Power Dissipation	500	mW
R _{0JA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55 ~ +150	℃

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C=0.1$ mA, $I_E=0$	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =100V,I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			1	μA
DC current gain	h _{FE}	V _{CE} =3V, I _C =100mA	82		270	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =25mA			0.2	V
Consider Similar Salaran Voltage		I _C =1A,I _B =50mA			0.3	V
Transition frequency	f _T	Vce=5V,lc=100mA	30			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		16		pF



