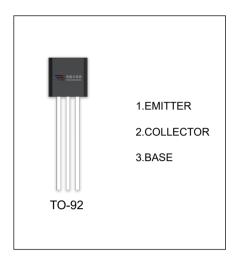


2SC1959 TRANSISTOR (NPN)

FEATURES

Excellent h_{FE} Linearlity



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1959	TO-92	Bulk	1000pcs/Bag
2SC1959-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	V _{CEO} Collector-Emitter Voltage		V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current –Continuous	0.5	А
Pc	Collector Power Dissipation	500	mW
T _J ,T _{stg} Operation Junction and Storage Temperature Range		-55-150	℃



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	I _C = 100μA, I _E =0	35			V
Collector-emitter breakdown voltage	V(BR)CEO	I _C = 1mA , I _B =0	30			V
Emitter-base breakdown voltage	V(BR)EBO	I _E = 100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 35V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C =0			0.1	μA
DC ourrent goin	h _{FE(1)}	V _{CE} =1 V, I _C = 100mA	70		400	
DC current gain	h _{FE(2)}	V _{CE} =6 V, I _C = 400mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 100mA, I _B = 10mA			0.25	V
Base-emitter voltage	V _{BE}	V _{CE} = 1V, I _C = 100mA			1.0	V
Transition frequency	f _T	V _{CE} = 6V, I _C =20mA		300		MHz
Collector output capacitance	C _{ob}	V _{CB} =6V,I _E =0,f=1MHz		7		pF

CLASSIFICATION OF h_{FE}

Rank		0	Υ	GR
Ra nge	h _{FE(1)}	70-140	120-240	200-400
	h _{FE(2)}	25(min)	40(min)	



