

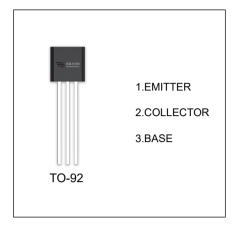
2SA1980 TRANSISTOR (PNP)

FEATURES

Low Collector Saturation Voltage: V_{CE(sat)} =-0.3V(Max.)

• Low Output Capacitance : C_{ob} =4pF (Typ.)

• Complementary Pair with 2SC5343



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1980	TO-92	Bulk	1000pcs/Bag
2SA1980-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25 $^{\mbox{\scriptsize \mathbb{C}}}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.15	А
P _D	Collector Power Dissipation	625	mW
R _{0 JA}	Thermal Resistance from Junction to Ambient	200	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



$T_a \text{=} 25\,^\circ\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA,I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V,I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{EB} =-5V,I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V,I _C =-2mA	70		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA,I _B =-10mA			-0.3	V
Transition frequency	f _T	V _{CE} =-10V,I _C =-1mA	80			MHz
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0,f=1MHz		4	7	pF
Noise figure	NF	V_{CE} =-6V, I_{C} =-0.1mA, f =1KH $_{Z}$, R_{S} =10K Ω			10	dB

CLASSIFICATION OF hFE

Rank	0	Υ	G	L
Range	70-140	120-240	200-400	300-700