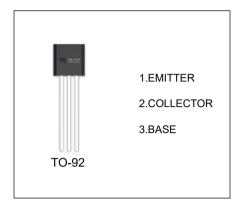


MPSW51 TRANSISTOR (PNP)

FEATURES

- General Purpose Amplifier Transistor
- Low Breakdown Voltage



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity	
MPSW51	TO-92	Bulk	1000pcs/Bag	
MPSW51-TA	TO-92	Tape	2000pcs/Box	

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-30	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current	-1	А	
Pc	Collector Power Dissipation	625	mW	
R _{θJA}	Thermal Resistance From Junction To Ambient 20		°C/W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$	



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_{C} = -0.1 \text{mA}, I_{E} = 0$	-40			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 =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-3V,I _C =0			-0.1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-0.01A	55			
	h _{FE(2)}	V _{CE} =-1V, I _C =-0.1A	60			
	h _{FE(3)}	V _{CE} =-1V, I _C =-1A	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A,I _B =-0.1A			-0.7	V
Base-emitter voltage	V_{BE}	I _C =-1A, V _{CE} =-1V			-1.2	V
Transition frequency	f _T	V _{CE} =-10V,I _C =-50mA,f=20MHz	50			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0, f=1MHz			30	pF