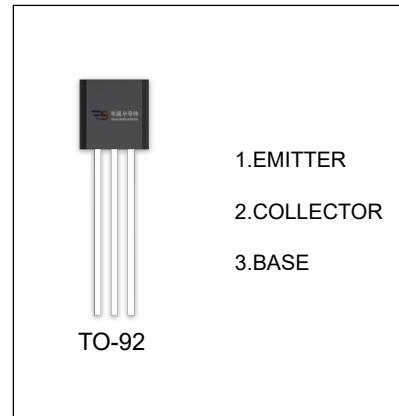


MPS2907

TRANSISTOR (PNP)

FEATURES

- Complementary NPN Type available (MPS2222)



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
MPS2907	TO-92	Bulk	1000pcs/Bag
MPS2907-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current -Continuous	-0.6	A
P_c	Collector Power Dissipation	0.625	W
T_J, T_{stg}	Operation Junction and Storage Temperature Rangee	-55-150	°C

T_a=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA,I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-40			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			-10	n A
Collector cut-off current	I _{CEX}	V _{CE} =-30V,V _{EB(off)} =-0.5V			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V,I _C =0			-10	nA
DC current gain	h _{FE(1)}	V _{CE} =-10V,I _C =-0.1mA	52			
	h _{FE(2)}	V _{CE} =-10V,I _C =-150mA	100		300	
	h _{FE(3)}	V _{CE} =-10V,I _C =-500mA	32			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-150mA,I _B =-15mA			-0.4	V
	V _{CE(sat)}	I _C =-500mA,I _B =-50mA			-0.67	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-150mA,I _B =-15mA			-1	V
	V _{BE(sat)}	I _C =-500mA,I _B =-50mA			-1.2	V
Transition frequency	f _T	V _{CE} =-20V,I _C =-50mA,f=100MHz	200			MHz
Delay time	t _d	V _{CC} =-30V,I _C =-150mA,I _{B1} =-15mA			10	nS
Rise time	t _r				25	nS
Storage time	t _s				225	nS
Fall time	t _f				60	nS

CLASSIFICATION OF h_{FE(2)}

Rank	L	H
Range	100-200	200-300