

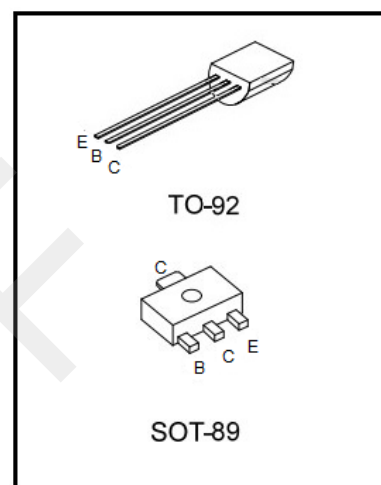
MPSA94

Package: TO-92/ SOP-89

Complement to MPSA44

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating		Unit
Collector-base voltage	BV_{CBO}	-500		V
Collector-emitter voltage	BV_{CEO}	-400		V
Emitter-base voltage	BV_{EBO}	-6		V
Collector current	I_{CM}	-300		mA
Collector Power Dissipation	P_C	TO-92	625	mW
		SOP-89	500	
Junction Temperature	T_j	150		°C
Storage Temperature	T_{stg}	-55~+150		°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$-I_C=100\mu A, I_E=0$	-500			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=-1mA, I_B=0$	-400			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=-100\mu A, I_C=0$	-6			V
collector-base cut-off current	I_{CBO}	$V_{CB}=-400V, I_E=0$			-0.1	μA
collector-emitter cut-off current	I_{CEO}	$V_{CE}=-400V, I_B=0$			-0.5	μA
emitter-base cut-off current	I_{EBO}	$V_{EB}=-4V, I_C=0$			-0.1	μA
DC current gain	H_{FE1}	$V_{CE}=-10V, I_B=-1mA$	40			
	H_{FE2}	$V_{CE}=-10V, I_B=-10mA$	50		300	
	H_{FE3}	$V_{CE}=-10V, I_B=-100mA$	40			
collector-emitter saturation voltage	$V_{CE(SAT)}$	$I_C=-10mA, I_B=-1mA$			-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=-10mA, I_B=-1mA$			-0.75	V
Transition frequency	f_T	$V_{CE}=-20V, I_B=-10mA, f=100MHz$	50			MHz