

TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																				
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CB} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} Min	β Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C (mA) @ V _{BE(SAT)}	C _{ob} (pF) Typ	f _T (MHz) Min	β Typ	I _C (mA)	t _{on} (ns) Max	N _F (dB) Max	Q @ Freq (MHz)	C _m (pF) Max	CDIL Case Style	
MPS8099	80	80	6	0.625	0.5	0.1	60			100	300	1	5	0.3		100		6	150		10					TO-92
										100		10	5													
										75		100	5													
MPS834	40		5	0.625	0.2	0.5	20	0.01	30	25		10	1	0.25	0.9	10	4	350		10	30					TO-92
														0.4	0.9	50										
MPS918	30	15	3	0.355	0.05	0.01	15			20		3	1	0.4	1	10	1.7					6	60			TO-92
MPSA05	60	60	4	0.625	0.5	0.1	60			50		10	1	0.25		100		100		10						TO-92
										50		100	1													
MPSA06	80	80	4	0.625	0.5	0.1	80			50		10	1	0.25		100		50		100						TO-92
										50		100	1													
MPSA09	50	50		0.625	0.1	0.1	25			100	600	0.1	5	0.9		10	5	30		1						TO-92
MPSA10		40	4	0.625	0.1	0.1	30			40	400	5	10				4	50		5						TO-92
*MPSA13	30	\$30	10	0.625	0.5	0.1	30			5		10	5	1.5		100	5	125	200	10		2	0.001			TO-92
										10		100	5													
MPSA20	40	40	4	0.625	0.1	0.1	30			40	400	5	10	0.25		10	4	125		5						TO-92
MPSA42	300	300	6	0.625	0.5	0.1	200			25		1	10	0.5	0.9	20	3	50		1						TO-92
										40		10	10													
										40		30	10													
MPSA43	200	200	6	0.625	0.5	0.1	160			25		1	10	0.4	0.9	20	4	50		10						TO-92
										40		10	10													
										50	200	30	10													
MPSA44	500	400	6	0.625	0.3	0.1	400	0.5	400	40		1	10	0.4		1	7									TO-92
										50	200	10	10	0.5	0.75	10										
										45		50	10	0.75		50										
										40		100	10													
MPSA45	400	350	6	0.625	0.3	0.1	320	0.5	320	40		1	10	0.4		1	7									TO-92
										50	200	10	10	0.5	0.75	10										
										45		50	10	0.75		50										
										40		100	10													
MPSH10	30	25	3	0.35		0.1	25			60		4	10	0.5		4	0.7	650		4						TO-92-3
MPSH11	30	25	3	0.35		0.1	25			60		4	10	0.5		4		650		4						TO-92-3
MPSH19	30	25	3	0.35		0.1	15			45		4	10				0.7	300		4						TO-92-3
MPSH20	40	30	4	0.35	0.1	0.05	15			25		4	10				0.7	400		4						TO-92-3
MPSH24	40	30	4	0.35	0.1	0.05	15			30		8	10				0.4	400		8						TO-92-3
MPSH30	20	20	3	0.625	0.05	0.05	10			20	200	4	5	3	0.96	10	0.7	300	800	4		6	45			TO-92-3
MPSH31	20	20	3	0.625	0.05	0.05	10			20	200	4	5	0.3	0.96	10	0.7	300	800	4		6	45			TO-92-3
MPSH32	40	30	4	0.625		0.05	10			27	200	4	5	3	1.2	10	0.2	300		4						TO-92-3
MPSH34	45	45	4	0.35	0.1	0.05	30			15		20	2	0.5		20	0.3	500		15						TO-92-3
										40		7	15													
MPSH37		40	5	0.35	0.1	0.5	35			25		5	10	0.5		10	0.7	300		5						TO-92-3
MPSL01	140	120	5	0.625	0.15	1	75			50	300	10	5	0.2	1.2	10	8	60		10						TO-92
										0.3					1.4	50										
P2N2222	60	30	5	0.625	0.6	0.01	50			35		0.1	10	0.4	1.3	150	8	250		20			100			TO-92-4
										50		1	10	1.6	2.6	500										
										75		10	10													
										50		150	1													
										100	300	150	10													
										30		500	10													

* NOTE : hFE values are K.

\$ V_{CES}