

TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V _{CB0} (V)	V _{CE0} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CB0} (μA)	V _{CB} (V)	I _{CES} (μA)	V _{CE} (V)	h _{FE}	β	I _C & V _{CE} (mA)	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _t (MHz)	I _C (mA)	t _{off} (ns)	N _F (dB)	Freq (MHz)	C _{es} (pF)	CDIL Case Style	
	Min	Min	Min	@ Tc=25°C	Max	Max	Max	Max	Min	Max	Min	Max	Max	Min	Max	Typ	Max	Min	Typ	Max	Max	Max	Max	Max
MPS3563	30	12	2	0.625	0.05	0.05	15			20	200	8 10				1.7	600	1500	8					TO-92
MPS3646	40	15	5	0.625	0.3			0.5	20	15	300	1	0.2	0.75	0.95	30	5	350	30	28				TO-92
										25	100	0.5	0.28	1.2	100									
										30	120	30	0.4	0.5	1.7	300								
MPS3693	45	45	4	0.625		0.05	35			40	160	10 10				3.5	200	10		4	1			TO-92
MPS3694	45	45	4	0.625		0.05	35			100	400	10 10				3.5	200	10		4	1			TO-92
MPS3704	50	30	5	0.625	0.6	0.1	20			100	300	50 2	0.6		100	12	100	50						TO-92
MPS3705	50	30	5	0.625	0.6	0.1	20			50	150	50 2	0.8		100	12	100	50						TO-92
MPS3706	40	20	5	0.625	0.6	0.1	20			30	600	50 2	1		100	12	100	50						TO-92
MPS3707	30	30	6	0.625	0.05	0.1	20			100	400	0.1 5	1		10					5				TO-92
MPS3708	30	30	6	0.625	0.05	0.1	20			45	660	1 5	1		10									TO-92
MPS3709	30	30	6	0.625	0.05	0.1	20			45	165	1 5	1		10									TO-92
MPS3710	30	30	6	0.625	0.05	0.1	20			90	330	1 5	1		10									TO-92
MPS3711	30	30	6	0.625	0.05	0.1	20			180	660	1 5	1		10									TO-92
MPS3903	60	40	6	0.625	0.2			*0.05	30	20	0.1	1	0.2	.65	0.85	10	4	150	10		6			TO-92
										35	1	1	0.3	1	50									
										50	150	10 1												
										30	50	1												
										15	100	1												
MPS3904	60	40	6	0.625	0.2			*0.05	30	40	0.1	1	0.2	.65	0.85	10	4	200	10		5			TO-92
										70	1	1	0.3	1	50									
										100	300	10 1												
										60	50	1												
										30	100	1												
MPS4123	40	30	5	0.625	0.2	0.05	20			50	150	2 1	0.3	0.95	50	4	100	10		6				TO-92
										25	50	1												
MPS4124	30	25	5	0.625	0.2	0.05	20			120	360	2 1	0.3	0.95	50	4	170	10						TO-92
										60	50	1												
MPS5172	25	25	5	0.625	0.1	0.1	25			100	500	10 10	0.25		10	10								TO-92
MPS650	60	40	5	0.625	2	0.1	60			75	50	2	0.5		2000		75	50						TO-92
										75	500	2	0.3	1	1000									
										75	1000	2												
										40	2000	2												
MPS6507	\$30	20	3	0.625	0.05	0.05	15			25		2 10				2.5	700	10						TO-92
MPS651	80	60	5	0.625	2	0.1	80			75	50	2	0.5		2000		75	50						TO-92
										75	500	2	0.3	1.2	1000									
										75	1000	2												
										40	2000	2												
MPS6511	\$30	20		0.625	0.05	0.05	15			25		10 10				2.5								TO-92
MPS6512	40	30	4	0.625	0.1	0.05	30			50	100	2 10	0.5		50		3.5							TO-92
										30	100	10												
MPS6513	40	30	4	0.625	0.1	0.05	30			90	180	2 10	0.5		50		3.5							TO-92
										60	100	10												
MPS6514	40	25	4	0.625	0.1	0.05	30			150	300	2 10	0.5		50		3.5							TO-92
										90	100	10												
MPS6520	40	25	4	0.625	0.1	0.05	30			200	400	2 10	0.5		50		3.5				3	0.01		TO-92
										100		0.1 10												

* NOTE : ICES
S NOTE : V_{CES}