

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 _{EB0} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CB} @ (V) Max	I _{CES} (μA) Max	V _{CE} @ (V) Max	h _{FE} Min	β Max	I _C & (mA) Max	V _{CE} (V) Max	V _{CE(SAT)} (V) Max	Min	V _{BE(SAT)} (V) Max	I _C @ (mA) Max	C _{ob} (pF) Typ	Max	f _t (MHz) Min	β Typ	I _C (mA) Max	t _{on} (ns) Max	N _F (dB) Max	β Max	Freq (MHz) Max	C _m (pF) Max	CDIL Case Style		
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 : ICEX

\$ NOTE : V_{CES}