

TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V _{CB0} (V)	V _{CEO} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CB0} (μA)	V _{CB} (V)	I _{CES} (μA)	V _{CE} (V)	h _{FE}	I _C & V _{CE}	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C	C _{ob} (pF)	f _t (MHz)	t _{off} (ns)	N _F (dB)	Freq (MHz)	C _{in} (pF)	CDIL Case Style			
	Min	Min	Min	@Tc=25°C		Max	@ (V)	Max	@ (V)	Min	Max	Max	Max	@ (mA)	Typ	Max	Max	Max	Max	Max	Max			
MPS8099	80	80	6	0.625	0.5	0.1	60			100	300	1	5	0.3		100	6	150				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		10	4	350		10	30	TO-92		
														0.4		50								
MPS918	30	15	3	0.355	0.05	0.01	15			20	3	1		0.4		10	1.7			6	60	TO-92		
MPSA05	60	60	4	0.625	0.5	0.1	60			50	10	1		0.25		100						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				TO-92		
MPSA10		40	4	0.625	0.1	0.1	30			40	400	5	10				4	50				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}

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