

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 _{EBO} (V)	P _D (W)	I _C (A)	I _{CB0} (μA)	V _{CB} (V)	I _{CES} (μA)	V _{CE} (V)	h _{FE}	β	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _t (MHz)	t _{on} (ns)	N _F (dB)	Q Freq (MHz)	C _{in} (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	
2N4953	60	30	5	0.625	0.6	0.05	40			200	600	150	10	0.3	1.3	150	8	250	20	400				TO-92-1
										150		10	10											
										75		1	10											
2N4954	40	30	5	0.625	0.6	0.05	30			60	600	150	10	0.3	1.3	150	8	250	20	400				TO-92-1
										40		10	10											
										20		1	10											
2N4966	50	40	6	0.625	0.05	0.025	25			40	200	0.01	5	0.4		10	6	40		1				TO-92
										50		10	5											
2N4967	50	40	6	0.625	0.05	0.025	25			100	600	0.01	5	0.4		10	6	40		1				TO-92
										120		10	5											
2N4968	30	25	6	0.625	0.05	0.05	25			40	200	0.01	5	0.4		10	6							TO-92
										50		10	5											
2N4969	60	30	5	0.6	0.5	0.01	50			20		500	10	0.4	1.3	150	8	250		20				TO-92
										20		150	1	1.6	2.6	500								
										40	120	150	10											
										35		10	10											
										25		1	10											
										20	120	0.1	10											
2N4970	50	30	5	0.6	0.5					100	350	150	10	0.4	0.6	1.2	150	8	200		20			TO-92
										70		10	10											
										50	350	150	1											
2N5030	30	12	4	0.625	0.2	0.25	20			30		10	1	0.25	0.72	0.87	10	4	400		10	30		TO-92-1
2N5088	35	30	5	0.625	0.05	0.05	20			300		10	5	0.5		10	4	50		1	3			TO-92
										350		1	5											
										300	900	0.1	5											
2N5089	30	25	5	0.625	0.05	0.05	15			400		10	5	0.5		10	4	50		1	2			TO-92
										450		1	5											
										400	1200	0.1	5											
2N5127	20	12	3	0.625	0.05	0.05	10			15	300	2	10	0.3	1	10	3.5	150		2				TO-92
2N5128	15	12	3	0.6	0.5	0.05	10			35	350	50	10	0.25	1.1	150	10	200		800	50			TO-92
										20		10	10											
2N5129	15	12	3	0.6	0.5	0.05	10			35	350	50	10	0.25	1.1	150	10	200		800	50			TO-92
										20		10	10											
2N5130*	30	12	1	0.625	0.05	0.05	10			15	250	8	10	0.6	1	10	1.7	450		8				TO-92
2N5131	20	15	3	0.625	0.1	0.05	10			35	500	10	1	1		10	6	100		10				TO-92
2N5132	20	20	3	0.625	0.1	0.05	10			30	400	10	10	2	0.9	10	3.5	200		10				TO-92
2N5133	20	18	3	0.625	0.05	0.05	15			60	1000	1	5	0.4		1	5							TO-92
2N5134	20	10	4	0.625	0.2	0.1	15			15		30	0.4	0.25	0.7	0.9	10	4	250		10	18		TO-92
										20	150	10	1											
2N5135	30	25	4	0.6	0.5	0.3	15			50	60	10	10	1	1	100	25	40		500	30			TO-92
										15		2	10											
2N5136	30	20	3	0.6	0.5	0.1	20			20	400	150	1	0.25	1.1	150	35	40		400	50			TO-92
										20		30	1											
2N5137	30	20	3	0.6	0.5	0.1	20			20	400	150	1	0.25	1.1	150	35	40		400	50			TO-92
										20		30	1											

* NOTE: I_{CEX}