

TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																
Type No.	V _{CEO} (V) Min	V _{CE0} (V) Min	V _{EB0} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CB} (V) @ I _C (V)	I _{CES} (μA) Max	V _{CE} (V) @ I _C (V)	h _{FE} @ I _C & V _{CE} (mA) (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C (mA) @ I _C (mA)	C _{ob} (pF) Typ	f _T (MHz) Min	f _T (MHz) Typ	I _C (mA) Max	t _{on} (ns) Max	N _F (dB) Max	Q Freq (MHz)	C _{in} (pF) Max	CDIL Case Style
2N3417	50	50	5	0.625	0.1	0.1	50			180 540 2 4.5	0.3	.6	1.3 50									TO-92-1
2N3564	30	15	4	0.625	0.05	0.05	15			20 200 15 10	0.3		0.97 20	3.5	400	1200	15					TO-92
2N3605		14		0.625	0.2	0.5	18			30 10 1	0.25	0.85	10	6	300		10	45				TO-92-1
2N3606		14		0.625	0.2	0.5	18			30 10 1	0.25	0.85	10	6	300		10	60				TO-92-1
2N3607		14		0.625	0.2	0.5	18			30 10 1	0.25	0.85	10	6	300		10	70				TO-92-1
2N3662	18	12	3	0.625	0.05	0.5	15			20 8 10				1.7	700	2100	5		6.5	60		TO-92-1
2N3663	30	12	3	0.625	0.05	0.5	15			20 8 10				1.7	700	2100	5		6.5	60		TO-92-1
2N3693	45	45	4	0.625	0.5	0.05	35			40 160 10 10				3.5	200		10		4			TO-92
2N3694	45	45	4	0.625	0.5	0.05	35			100 400 10 10				3.5	200		10		4			TO-92
2N3704	50	30	5	0.625	0.6	0.1	20			100 300 50 2	0.6		100	12	100		50					TO-92-1
2N3705	50	30	5	0.625	0.6	0.1	20			50 150 50 2	0.8		100	12	100		50					TO-92-1
2N3706	40	20	5	0.625	0.6	0.1	20			30 600 50 2	1		100	12	100		50					TO-92-1
2N3707	30	30	6	0.625	0.25	0.1	20			100 400 0.1 5	1		10						5			TO-92-1
2N3708	30	30	6	0.625	0.25	0.1	20			45 660 1 5	1		10									TO-92-1
2N3709		30		0.625	0.25	0.1	20			45 165 1 5	1		10									TO-92-1
2N3710	30	30	6	0.625	0.25	0.1	20			90 330 1 5	1		10									TO-92-1
2N3711	30	30	6	0.625	0.25	0.1	20			180 660 1 5	1		10									TO-92-1
#2N3721	18	18	5	0.625	0.1	0.5	18			60 660 2 10				12								TO-92-1
2N3794	40	20	5	0.625	0.6	0.5	15			100 100 10 10 100 600 10 10 35 1 10	0.4		10	10	100	600	10					TO-92-1
2N3825	30	15	4	0.625	0.1	0.1	15			20 2 10	0.25		2	3.5	200	800	2		5.5	1		TO-92-1
2N3827	60	45	4	0.625	0.5	0.1	30			100 400 10 10				3.5	200	800	10					TO-92-1
2N3858	30	30	4	0.625	0.1	0.5	18			60 120 2 4.5				4	90	250	2					TO-92-1
2N3858A	60	60	6	0.625	0.05	0.5	18			60 120 10 1 45 1 1				4	90	250	2					TO-92-1
2N3859	30	30	4	0.625	0.1	0.5	18			100 200 2 4.5				4	90	250	2					TO-92-1
2N3859A	60	60	6	0.625	0.05	0.5	18			100 200 10 1 75 200 1 1				4	90	250	2					TO-92-1
2N3860	30	30	4	0.625	0.1	0.5	18			150 300 2 4.5				4	90	250	2					TO-92-1
2N3877	70	70	4	0.625	0.05	0.5	70			20 250 2 4.5		0.5	0.9 10									TO-92-1
2N3877A	85	85	4	0.625	0.05	0.5	70			20 250 2 4.5		0.5	0.9 10									TO-92-1
2N3900	18	18	5	0.625	0.1	0.1	18			250 500 2 4.5					12							TO-92-1
2N3900A	18	18	5	0.625	0.05	0.1	18			250 500 2 4.5					12				5			TO-92-1
2N3901	18	18	5	0.625	0.05	0.1	15			350 700 2 4.5									5			TO-92-1

NOTE : HFE values are hfe(min) & hfe (max) at 1.00 kHz

TO-92 Plastic Package Transistors (PNP)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																					
Type No.	V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CB0} (μA) Max	V _{CB} @ (V)	I _{CES} (μA) Max	V _{CE} @ (V)	h _{FE} @	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Min	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ	Max	f _i (MHz) Min	Max	I _C (mA) Max	t _{on} (ns) Max	N _F (dB) Max	Q Freq (MHz) Max	C _m (pF) Max	CDIL Case Style	
2N3702	40	25	5	0.625	0.6	0.1	20			60	300	50	5	0.25			50	12		100		50					TO-92-1
2N3703	50	30	5	0.625	0.6	0.1	20			30	150	50	5	0.25			50	12		100		50					TO-92-1
2N3905	40	40	5	0.625	0.2			*0.05	30	30		0.1	1	0.25	0.65	0.85	10	4.5		200		10		5			TO-92
										40		1	1	0.4		0.95	50										
										50	150	10	1														
										30		50	1														
										15	100	1															
2N3906	40	40	5	0.625	0.2			*0.05	30	100	300	10	1	0.25	0.65	0.85	10	4.5		250		10		4			TO-92
										60		0.1	1	0.4	0.95	50											
										80		1	1														
										60		50	1														
										30	100	1															
2N4058	30	30	6	0.625	0.05	0.1	20			100	400	0.1	5	0.7				10					5				TO-92-1
2N4059	30	30	6	0.625	0.05	0.1	20			45	660	1	5	0.7				10									TO-92-1
2N4061	30	30	6	0.625	0.05	0.1	20			90	330	1	5	0.7				10									TO-92-1
2N4062	30	30	6	0.625	0.05	0.1	20			180	660	1	5	0.7				10									TO-92-1
2N4125	30	30	4	0.625	0.2	0.05	20			50	150	2	1	0.4		0.95	50	4.5		200		10		5	100		TO-92
										25		50	1														
2N4126	25	25	4	0.625	0.2	0.05	20			120	360	2	1	0.4		0.95	50	4.5		250		10		4	100		TO-92
										60		50	1														
2N4249	60	60	5	0.625	0.05	0.01	40			100	300	0.1	5	0.25			10	10		6							TO-92
2N4288	30	25	6	0.625	0.05	0.05	25			75		10	5	0.35		0.8		1		8		40		1			TO-92-1
										150	600	1	5														
										100		0.1	5														
2N4289	60	45	7	0.625	0.05	0.01	45			75		10	5	0.35		0.8		1		8		40		1	4		TO-92-1
										150	600	1	5														
										100		0.1	5														
2N4290	30	20	5	0.625	0.5	0.5	20			50	300	100	10	0.4		1.5	100	10		100		10					TO-92-1
										40		10	10														
										20		0.1	10														
2N4291	40	30	6	0.625	0.6	0.2	30			100	300	100	10	0.4		1.5	100	10		100		10					TO-92-1
										50		10	10														
										30		0.1	10														
2N4402	40	40	5	0.625	0.6			*0.1	35	20		500	2	0.4	0.7	0.95	150	8.5		150		20		255			TO-92
										50	150	150	2	0.75		1.3	500										
										50		10	1														
										30		1	1														
2N4403	40	40	5	0.625	0.6			*0.1	35	20		500	2	0.4	0.75	0.95	150	8.5		200		20		255			TO-92
										100	300	150	2	0.75		1.3	500										
										100		10	1														
										60		1	1														
										30		0.1	1														
2N4964		40	4	0.625	0.05	0.1	30			40	400	5	10	0.25				10		4		125		5			TO-92
2N4965	50	50				0.05	35			150		10	5	0.3				10		4		40		0.5	3		TO-92
										150		1	5														
										150	500	0.1	5														
2N4971	60	40	5	0.625	0.6	0.02	50			20		500	10	0.4		1.3	150	8		200		50		100			TO-92
										40	120	150	10	1.6		2.6	500										
										35		10	10														
										25		1	10														
										20		0.1	10														

* NOTE : I_{CEX}