

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 _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CB} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} Min	β Max	I _C & V _{CE} (mA) (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Min	I _C @ (mA) Max	C _{ob} (pF) Typ	f _i (MHz) Min	β Typ	I _C (mA) Max	t _{off} (ns) Max	N _F (dB) Max	Q @ Freq (MHz)	C _{re} (pF) Max	CDIL Case Style	
P2N2222A	75	40	6	0.625	0.8	0.01	60			35		0.1 10	0.3	0.6	1.2 150	8	300			20			100		TO-92-4
										50		1 10	1		2 500										
										75		10 10													
										50		150 1													
										100	300	150 10													
										40		500 10													
P2N2369	40	15	5	0.625	0.2	0.4	20			40	120	10 1	0.25	.7	0.85 10	4	500			10					TO-92-4
										20		100 2													
PBF259	300	300	5	0.625	0.5	0.05	250			25		1 10	1			30	3	40		1					TO-92
										25		30 10	0.5		30										
PBF259S	300	300	5	0.625	0.5	0.05	250			60	20	10	0.5			30	3	40		10					TO-92
										25		1 10	1		30										
										25		30 10													
PN2221	60	30	5	0.625	0.6	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		0.1 10													
PN2221A	75	40	6	0.625	0.6	0.01	60			25		500 10	0.3	.6	1.2 150	8	250			20	285				TO-92
										20		150 1	1		2 500										
										40	120	150 10													
										35		10 10													
										25		1 10													
										20		0.1 10													
PN2222	60	30	5	0.625	0.6	0.01	50			30		500 10	0.4		1.3 150	8	250			20					TO-92
										50		150 1	1.6		2.6 500										
										100	300	150 10													
										75		10 10													
										50		1 1													
										35		0.1 1													
PN2222A	75	40	6	0.625	0.8	0.01	60			40		500 10	0.3	.6	1.2 150	8	300			20	285	4	0.001		TO-92
										50		150 1	1		2 500										
										100	300	150 10													
										75		10 10													
										50		1 10													
										35		0.1 10													
PN2369	\$ 40	15	5	0.625	0.2	0.4	20			20	120	100 2	0.25	.7	0.85 10	4	500		10	18				TO-92	
										40		10 1													
PN2369A	\$ 40	15	5	0.625	0.1	0.03	20			20	120	100 1	0.2	.7	0.85 10	4	500		10	18				TO-92	
										30		30 0.4	0.2		1.15 30										
										40	120	10 1	0.5		1.6 100										
										40		10 0.4													
PN2484	60	60	6	0.625	0.05	0.01	45				800	10 5	0.35			1	6	20		1				TO-92	
										250		1 5													
										200		0.5 5													
										175		0.1 5													
										100	500	0.01 5													
										30		5													
PN3563	30	15	2	0.625	0.05	0.05	15			20	200	8 10				1.7	600		1500	8				TO-92	
PN3564	30	15	4	0.625	0.05	0.05	15			20	500	15 10	0.3		0.97 20	3.5	400		1200	15				TO-92	
PN3565	30	25	6	0.625	0.05	0.05	25			150	600	1 10	0.35		1	4	2		12	1				TO-92	
										70		0.1 10													
PN3566	40	30	5	0.625	0.6	0.05	20			80		2 10	1			100	25	2		35	30				TO-92
										150	600	10 10													
PN3567	80	40	5	0.625	0.6	0.05	40			40	120	30 1	0.25			150	20	3		30	50				TO-92
										40		150 1													

\$ NOTE : V_{CES}