

TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																			
Type No.	V _{CB0} (V)	V _{CE0} (V)	V _{EBO} (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} (mA) (V)	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _i (MHz)	@	I _C (mA)	t _{off} (ns)	N _F (dB)	@ Freq (MHz)	C _{re} (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	Max	Max	
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												
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												
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												
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												
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												
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												
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}