

TO-92 Plastic Package Transistors (PNP)

Maximum Ratings								Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CBO} (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) Max	I _C @ (mA)	C _{ob} (pF) Typ	f _i (MHz) Min	@	I _C (mA)	t _{on} (ns) Max	N _F (dB) Max	@ Freq (MHz)	C ₁₀ (pF) Max	CDIL Case Style	
2SA719	30	25	5	0.625	0.5	0.1	20			85 40	340 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA719Q	30	25	5	0.625	0.5	0.1	20			85 40	170 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA719R	30	25	5	0.625	0.5	0.1	20			120 40	240 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA719S	30	25	5	0.625	0.5	0.1	20			170 40	300 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA720	60	50	5	0.625	0.5	0.1	20			85 40	340 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA720Q	60	50	5	0.625	0.5	0.1	20			85 40	170 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA720R	60	50	5	0.625	0.5	0.1	20			120 40	170 150 500	10 10	0.6	1.5	300	15	200								TO-92-1
2SA720S	60	50	5	0.625	0.5	0.1	20			170 40	340 150 500	10 10	0.6	1.5	500	15	200								TO-92-1
2SA733	60	50	5	0.5	0.1	0.1	60			90	600	1	0.3		100	6	50			20	0.001			TO-92-1	
2SA733K	60	50	5	0.5	0.1	0.1	60			300	600	1	0.3		100	6	50			20	0.001			TO-92-1	
2SA733P	60	50	5	0.5	0.1	0.1	60			200	400	1	0.3		100	6	50			20	0.001			TO-92-1	
2SA733Q	60	50	5	0.5	0.1	0.1	60			135	270	1	0.3		100	6	50			20	0.001			TO-92-1	
2SA733R	60	50	5	0.5	0.1	0.1	60			90	180	1	0.3		100	6	50			20	0.001			TO-92-1	
2SA933	50	40	5	0.3	0.1	0.5	30			120 25	560 150	1 6	0.5	1.1	50	4	7	140		2	10			TO-92-1	
2SA970	120	120	5	0.3	0.1	0.1	120			70	700	2	0.3		10	4	100		1	2	0.001			TO-92-1	
2SA970BL	120	120	5	0.3	0.1	0.1	120			350	700	2	0.3		10	4	100		1	2				TO-92-1	
2SA970GR	120	120	5	0.3	0.1	0.1	120			200	400	2	0.3		10	4	100		1	2				TO-92-1	
2SA984D	100	80	5	0.6	0.5	1	40			60 35	120 400	5 5	0.6	1.2	400	9	120		10					TO-92-1	
2SA984E	100	80	5	0.6	0.5	1	40			100 35	200 400	5 5	0.6	1.2	400	9	120		10					TO-92-1	
2SA984F	100	80	5	0.6	0.5	1	40			160 35	320 400	5 5	0.6	1.2	400	9	120		10					TO-92-1	
2SA984K	100	80	5	0.6	0.5	1	40			60 35	320 400	5 5	0.6	1.2	400	9	120		10					TO-92-1	
BC204	50	45	5	0.625	0.1	0.05	45			50	450	2	0.3		10					10				TO-92	
#BC212	60	50	5	0.35	0.1	0.015	30			40 60		0.01 2	0.6	1.4	100	6	280		10	10	0.001			TO-92-4	
#BC212A	60	50	5	0.35	0.1	0.015	30			40 100		0.01 300	0.6	1.4	100	6	280		10	10				TO-92-4	
#BC212B	60	50	5	0.35	0.1	0.015	30			40 200		0.01 400	0.6	1.4	100	6	280		10	10				TO-92-4	

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

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