

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 _{EBO} (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 & V _{CE} (mA) (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ Max	f _t (MHz) Min Typ Max	t _{off} (ns) Max	N _F (dB) Max	@ Freq (MHz)	C _{re} (pF) Max	CDIL Case Style	
2SA719	30	25	5	0.625	0.5	0.1	20			85 340 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA719Q	30	25	5	0.625	0.5	0.1	20			85 170 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA719R	30	25	5	0.625	0.5	0.1	20			120 240 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA719S	30	25	5	0.625	0.5	0.1	20			170 300 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA720	60	50	5	0.625	0.5	0.1	20			85 340 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA720Q	60	50	5	0.625	0.5	0.1	20			85 170 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA720R	60	50	5	0.625	0.5	0.1	20			120 170 150 10 40 500 10	0.6	1.5	300	15	200 50					TO-92-1	
2SA720S	60	50	5	0.625	0.5	0.1	20			170 340 150 10 40 500 10	0.6	1.5	500	15	200 50					TO-92-1	
2SA733	60	50	5	0.5	0.1	0.1	60			90 600 1 6	0.3		100	6	50 10		20	0.001		TO-92-1	
2SA733K	60	50	5	0.5	0.1	0.1	60			300 600 1 6	0.3		100	6	50 10		20	0.001		TO-92-1	
2SA733P	60	50	5	0.5	0.1	0.1	60			200 400 1 6	0.3		100	6	50 10		20	0.001		TO-92-1	
2SA733Q	60	50	5	0.5	0.1	0.1	60			135 270 1 6	0.3		100	6	50 10		20	0.001		TO-92-1	
2SA733R	60	50	5	0.5	0.1	0.1	60			90 180 1 6	0.3		100	6	50 10		20	0.001		TO-92-1	
2SA933	50	40	5	0.3	0.1	0.5	30			120 560 1 6 25 150 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 6	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 6	0.3		10	4	100 1		2			TO-92-1	
2SA970GR	120	120	5	0.3	0.1	0.1	120			200 400 2 6	0.3		10	4	100 1		2			TO-92-1	
2SA984D	100	80	5	0.6	0.5	1	40			60 120 50 5 35 400 5	0.6	1.2	400	9	120 10					TO-92-1	
2SA984E	100	80	5	0.6	0.5	1	40			100 200 50 5 35 400 5	0.6	1.2	400	9	120 10					TO-92-1	
2SA984F	100	80	5	0.6	0.5	1	40			160 320 50 5 35 400 5	0.6	1.2	400	9	120 10					TO-92-1	
2SA984K	100	80	5	0.6	0.5	1	40			60 320 50 5 35 400 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 5	0.3		10				10			TO-92	
#BC212	60	50	5	0.35	0.1	0.015	30			40 60 0.01 5 60 2 5	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 5 300 2 5	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 5 400 2 5	0.6	1.4	100	6	280 10		10			TO-92-4	

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