

TO-92 Plastic Package Transistors (PNP)

Maximum Ratings								Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V _{CEO} (V)	V _{CE0} (V)	V _{ES0} (V)	P _D (W)	I _C (A)	I _{CS0} (μA)	V _{CB} @ (V)	I _{CS} (μA)	V _{CE} @ (V)	h _{FE} @		I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V)	V _{BE(SAT)} (V)	I _C @ (mA)	C _{ob} (pF)	f _t (MHz)			t ₀₉₅ (ns)	N _F (dB)	@ Freq (MHz)	C ₁₉ (pF)	CDIL Case Style
	Min	Min	Min	@Tc=25°C	Max	Max	Max	Min	Max	Min	Max	Min	Max	Max	Min	Max	Typ	Max	Min	Typ	Max	Max	Max	Max	Max
2SA719	30	25	5	0.625	0.5	0.1	20			85	340	150	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	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	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	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	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	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	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	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	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	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	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	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	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		0.01	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		0.01	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		0.01	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

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