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Leaded Components

Varactor Diodes (leaded)

Type	Maximum Ratings		Characteristics ($T_A = 25\text{ °C}$)							Package		
	V_R V	I_F mA	C_T pF	at	V_R V	C_T pF	at	V_R V	C_{Ratio}		I_R nA	at
■ BB 112	12	50	440 - 520	1	16.50 - 29.00	8.5			≥ 18.00	50	10	TO-92a
■ BB 304	32	50	42 - 47.5	2	25.00	8.0			1.65 - 1.75	20	30	TO-92b

■ Not for new design

Transistors (leaded)

Type N = NPN P = PNP	Maximum Ratings			Characteristics ($T_A = 25\text{ °C}$)								Package		
	V_{CE0} V	I_C mA	P_{tot} mW	f_T MHz	I_{CB0} nA	at	V_{CB0} V	h_{FE}	at	I_C mA	V_{CE} V		V_{CEsat} V	at

High-Voltage Transistors

■ BF 420	N	300	50	830	100	≤ 10	200	≥ 50	25	20	≤ 20.0	25	-	TO-92d
■ BF 421	P	300	50	830	100	≤ 10	200	≥ 50	25	20	≤ 20.0	25	-	TO-92d
■ BF 422	N	250	50	830	100	≤ 10	200	≥ 50	25	20	≤ 20.0	25	-	TO-92d
■ BF 423	P	250	50	830	100	≤ 10	200	≥ 50	25	20	≤ 20.0	25	-	TO-92d
■ BFP 22	N	200	200	625	70	≤ 100	160	≥ 50	30	10	≤ 0.5	20	2	TO-92c
■ BFP 23	P	200	200	625	70	≤ 100	160	≥ 50	30	10	≤ 0.4	20	2	TO-92c
■ BFP 25	N	300	200	625	70	≤ 100	250	≥ 40	30	10	≤ 0.4	20	2	TO-92c
■ BFP 26	P	300	200	625	70	≤ 100	250	≥ 40	30	10	≤ 0.5	20	2	TO-92c
■ MPSA 42	N	300	500	625	70	100	200	≥ 40	30	10	≤ 0.5	20	2	TO-92c
■ MPSA 43	N	200	500	625	70	100	160	≥ 40	30	10	≤ 0.4	20	2	TO-92c
■ MPSA 92	P	300	500	625	70	100	200	≥ 25	30	10	≤ 0.5	20	2	TO-92c
■ MPSA 93	P	200	500	625	70	100	160	≥ 30	30	10	≤ 0.4	20	2	TO-92c

■ Not for new design

Transistors (lead) (cont'd)

Type N = NPN P = PNP	Maximum Ratings			Characteristics ($T_A = 25\text{ }^\circ\text{C}$)									Package
	V_{CE0} V	I_C mA	P_{tot} mW	f_T MHz	I_{CB0} nA	at V_{CB0} V	h_{FE}	at I_C mA	V_{CE} V	V_{CEsat} V	at I_C mA	I_B mA	

Darlington Transistors

■ BC 516	P	30	500	625	200	≤ 100	30	≥ 30000	20	2	≤ 1.0	100	0.1	TO-92d
■ BC 517	N	30	500	625	150	≤ 100	30	≥ 30000	20	2	≤ 1.0	100	0.1	TO-92d
■ BC 617	N	40	500	625	150	≤ 100	40	≥ 20000	200	5	≤ 1.1	200	0.2	TO-92d
■ BC 618	N	55	500	625	150	≤ 100	60	≥ 10000	200	5	≤ 1.1	200	0.2	TO-92d
■ BC 875	N	45	1000	800	150	≤ 100	60	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d
■ BC 876	P	45	1000	800	150	≤ 100	60	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d
■ BC 877	N	60	1000	800	150	≤ 100	80	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d
■ BC 878	P	60	1000	800	150	≤ 100	80	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d
■ BC 879	N	80	1000	800	150	≤ 100	90	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d
■ BC 880	P	80	1000	800	150	≤ 100	90	≥ 2000	500	10	≤ 1.3	500	0.5	TO-92d

■ Not for new design

RF-Transistors

Type N = NPN P = PNP	Maximum Ratings			Characteristics ($T_A = 25\text{ }^\circ\text{C}$)										Package
	V_{CE0} V	I_C mA	P_{tot} mW	f_T GHz	F dB	I_C mA	V_{CE} V	f MHz	G_{PC} dB	I_C mA	V_{CE} V	f MHz		
■ BF 414	P	30	25	300	0.56	3.0	5	10	100	–	–	–	–	TO-92d
■ BF 506	P	35	30	300	0.55	3.0	2	10	200	–	–	–	–	TO-92d
■ BF 959	N	20	100	500	1.10	4.0	20	10	200	–	–	–	–	TO-92d

■ Not for new design

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General Purpose and Switching Transistors

Type N = NPN P = PNP	Maximum Ratings			Characteristics ($T_A = 25\text{ °C}$)									Package
	V_{CB0} V	I_C mA	P_{tot} mW	f_T MHz	I_{CB0} nA	at V_{CB0} V	h_{FE}	at I_C mA	V_{CE} V	V_{CEsat} V	at I_C mA	I_B mA	
■ BC 327 P	50	800	625	200	≤ 100	45	100 ... 630*	100	1	≤ 0.70	500	50.0	TO-92d
■ BC 328 P	30	800	625	200	≤ 100	25	100 ... 630*	100	1	≤ 0.70	500	50.0	TO-92d
■ BC 337 N	50	800	625	170	≤ 100	45	100 ... 630*	100	1	≤ 0.70	500	50.0	TO-92d
■ BC 338 N	30	800	625	170	≤ 100	25	100 ... 630*	100	1	≤ 0.70	500	50.0	TO-92d
■ BC 368 N	25	1000	800	100	≤ 100	25	85 ... 375	500	1	≤ 0.50	1000	100.0	TO-92d
■ BC 369 P	25	1000	800	100	≤ 100	25	85 ... 375	500	1	≤ 0.50	1000	100.0	TO-92d
■ BC 635 N	45	1000	800	100	≤ 100	30	40 ... 250	150	2	≤ 0.50	500	50.0	TO-92d
■ BC 636 P	45	1000	800	100	≤ 100	30	40 ... 250	150	2	≤ 0.50	500	50.0	TO-92d
■ BC 637 N	60	1000	800	100	≤ 100	30	40 ... 160	150	2	≤ 0.50	500	50.0	TO-92d
■ BC 638 P	60	1000	800	100	≤ 100	30	40 ... 160	150	2	≤ 0.50	500	50.0	TO-92d
■ BC 639 N	100	1000	800	100	≤ 100	30	40 ... 160	150	2	≤ 0.50	500	50.0	TO-92d
■ BC 640 P	100	1000	800	100	≤ 100	30	40 ... 160	150	2	≤ 0.50	500	50.0	TO-92d
■ BCX 12 N	125	800	625	100	100	100	63	100	1	≤ 1.00	500	50.0	TO-92d
■ BCX 13 P	125	800	625	120	100	100	63	100	1	≤ 1.00	500	50.0	TO-92d
■ BCX 58 N	32	100	500	200	≤ 20	32	120 ... 630*	2	5	≤ 0.50	100	2.50	TO-92d
■ BCX 59 N	45	100	500	200	≤ 20	45	120 ... 630*	2	5	≤ 0.50	100	2.50	TO-92d
■ BCX 78 P	32	100	500	250	≤ 20	32	120 ... 630*	2	5	≤ 0.60	100	2.50	TO-92d
■ BCX 79 P	45	100	500	250	≤ 20	45	120 ... 630*	2	5	≤ 0.60	100	2.50	TO-92d

■ Not for new design

* Available in h_{FE} subgroups.