

# TO-92 Plastic Package Transistors (NPN)

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CB0</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> (V)	h <sub>FE</sub>	I <sub>C</sub> & V <sub>CE</sub>	V <sub>CE(SAT)</sub> (V)	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>i</sub> (MHz)	I <sub>C</sub> (mA)	I <sub>sat</sub> (ns)	N <sub>F</sub> (dB)	Freq (MHz)	C <sub>re</sub> (pF)	CDIL Case Style	
	Min	Min	Min	@ Tc=25°C		Max	@ (V)	Max	@ (V)	Min	Max	Max	Min	Max	Typ	Max	Min	Typ	Max	Max		Max	
BC449A	100	100	5	0.625	0.3	0.1	80			120	220	2	5	0.25	100		100	50					TO-92-4
										100	10	5											TO-92-4
										60	100	5											TO-92-4
BC449B	100	100	5	0.625	0.3	0.1	80			180	460	2	5	0.25	100		100	50					TO-92-4
										160	10	5											TO-92-4
										90	100	5											TO-92-4
BC451C	50	45	6	0.35	0.1	.015	50			450	800	5	2	0.2	10	4.5	150	10	10				TO-92-4
														0.6	100								TO-92-4
BC485	45	45	5	0.625	1	0.1	30			15	1000	5	2	0.5	1.2	500	7	200	50				TO-92-4
										40	10	2											TO-92-4
										60	400	100	2										TO-92-4
BC485A	45	45	5	0.625	1	0.1	30			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										100	250	100	2										TO-92-4
										15	1000	5											TO-92-4
BC485B	45	45	5	0.625	1	0.1	30			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										160	400	100	2										TO-92-4
										15	1000	5											TO-92-4
BC485L	45	45	5	0.625	1	0.1	30			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										60	150	100	2										TO-92-4
										15	1000	5											TO-92-4
BC487	60	60	5	0.625	1	0.1	40			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										60	400	100	2										TO-92-4
										15	1000	5											TO-92-4
BC487A	60	60	5	0.625	1	0.1	40			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										100	250	100	2										TO-92-4
										15	1000	5											TO-92-4
BC487B	60	60	5	0.625	1	0.1	40			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										160	400	100	2										TO-92-4
										15	1000	5											TO-92-4
BC487L	60	60	5	0.625	1	0.1	40			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										60	150	100	2										TO-92-4
										15	1000	5											TO-92-4
BC489	80	80	5	0.625	1	0.1	60			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										60	400	100	2										TO-92-4
										15	1000	5											TO-92-4
BC489A	80	80	5	0.625	1	0.1	60			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										100	250	100	2										TO-92-4
										15	1000	5											TO-92-4
BC489B	80	80	5	0.625	1	0.1	60			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										160	400	100	2										TO-92-4
										15	1000	5											TO-92-4
BC489L	80	80	5	0.625	1	0.1	60			40	10	2	2	0.5	1.2	500	7	200	50				TO-92-4
										60	150	100	2										TO-92-4
										15	1000	5											TO-92-4
BC546	80	65	6	0.5	0.1			0.015	70	110	450	2	5	0.25	10	1.7	4.5	150	300	10	10	0.001	TO-92-4
										0.6	100												TO-92-4
BC546A	80	65	6	0.5	0.1			0.015	70	110	220	2	5	0.25	10	1.7	4.5	150	300	10	10	0.001	TO-92-4
										0.6	100												TO-92-4
BC546B	80	65	6	0.5	0.1			0.015	70	200	450	2	5	0.25	10	1.7	4.5	150	300	10	10	0.001	TO-92-4
										0.6	100												TO-92-4

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