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# 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>EBO</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> (mA) (V)	V <sub>CE(SAT)</sub> (V)	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>T</sub> (MHz)	I <sub>C</sub> (mA)	t <sub>off</sub> (ns)	N <sub>F</sub> (dB)	Freq (MHz)	C <sub>m</sub> (pF)	CDIL Case Style	
	Min	Min	Min	@ Tc=25°C	Max	Max	Max	Max	Min	Max	Max	Max	Max	Max	Typ	Min	Typ	Max	Max	Max	Max	Max	
2SD261	40	20	5	0.5		0.1	25			40	400	100	1	0.4		1.3	500						TO-92-1
2SD468	25	20	5	0.9	1	1	20			85	240	500	2	0.5		800	22		190		500		TO-92-1
2SD468B	25	20	5	0.9	1	1	20			85	170	500	2	0.5		800	22		190		500		TO-92-1
2SD468C	25	20	5	0.9	1	1	20			120	240	500	2	0.5		800	22		190		500		TO-92-1
2SD545	25	25	5	0.6	1	1	20			60	560	50	2	0.3		1.2	500	15		180	50		TO-92-1
										30		1000	2										
2SD545D	25	25	5	0.6	1	1	20			60	120	50	2	0.3		1.2	500	15		180	50		TO-92-1
										30		1000	2										
2SD545E	25	25	5	0.6	1	1	20			100	200	50	2	0.3		1.2	500	15		180	50		TO-92-1
										30		1000	2										
2SD545F	25	25	5	0.6	1	1	20			160	320	50	2	0.3		1.2	500	15		180	50		TO-92-1
										30		1000	2										
2SD545G	25	25	5	0.6	1	1	20			280	560	50	2	0.3		1.2	500	15		180	50		TO-92-1
										30		1000	2										
2SD786	50	40	5	0.25	0.3	0.5	30			120	560	10	6	0.5		50			100		10		TO-92-1
2SD786Q	50	40	5	0.25	0.3	0.5	30			120	270	10	6	0.5		50			100		10		TO-92-1
2SD786R	50	40	5	0.25	0.3	0.5	30			180	390	10	6	0.5		50			100		10		TO-92-1
2SD786S	50	40	5	0.25	0.3	0.5	30			270	560	10	6	0.5		50			100		10		TO-92-1
BC167	50	45	6	0.3	0.1			0.015	50	120	460	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC167A	50	45	6	0.3	0.1			0.015	50	120	220	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC167B	50	45	6	0.3	0.1			0.015	50	180	460	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC168	30	20	5	0.3	0.1			0.015	30	120	800	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC168A	30	20	5	0.3	0.1			0.015	30	120	220	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC168B	30	20	5	0.3	0.1			0.015	30	180	460	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC168C	30	20	5	0.3	0.1			0.015	30	380	800	2	5	0.6	1.05	100	3.5	6	150	250	10	10	TO-92-1
										0.2				0.83	10								
BC169	30	20	5	0.3	0.05			0.015	30	120	800	2	5	0.6	1.05	100	3.5	6	150	300	10		TO-92-1
										0.2				0.83	10								
BC169B	30	20	5	0.3	0.05			0.015	30	180	460	2	5	0.6	1.05	100	3.5	6	150	300	10		TO-92-1
										0.2				0.83	10								
BC169C	30	20	5	0.3	0.05			0.015	30	380	800	2	5	0.6	1.05	100	3.5	6	150	300	10		TO-92-1
										0.2				0.83	10								
BC170	20	20	5	0.3	0.1	0.1	15			35	600	1	1	0.25	0.7	1	4		100		10		TO-92-4
										0.4				0.30									
BC171	50	45	6	0.35	0.1			0.015	50	120	800	2	5	0.25		10	4.5		150		10	10	TO-92-4
										0.6				100									