

Silicon NPN Transistors

Type	Con- struction	P <sub>c</sub> Max. (mW)	Typical f <sub>T</sub> or *f <sub>1</sub> † fab (MHz)	Absolute Max. Ratings				Typical h <sub>FE</sub> at (mA) (or *h <sub>FE</sub> )	Max I <sub>CBO</sub> at V <sub>CB</sub>		Application	Base Ref.	
				V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	I <sub>C</sub> (mA)		μA	V			
BCY58C	PE	300	300	32	32	5	200	350 at 2	0.01	32	Low level amplifiers	2	
BCY58D	PE	300	300	32	32	5	200	500 at 2	0.01	32		2	
BCY59A	PE	300	300	45	45	5	200	170 at 2	0.01	45		2	
BCY59B	PE	300	300	45	45	5	200	250 at 2	0.01	45		2	
BCY59C	PE	300	300	45	45	5	200	350 at 2	0.01	45		2	
BCY59D	PE	300	300	45	45	5	200	500 at 2	0.01	45		2	
BSY19 2N708	PE	300	300	40	15	5	200	30 at 10	0.025	20	Low level switching	2	
BSY21 2N914												2	
2N743	PE	300	300	20	12	5	200	10 at 100	1	20		2	
2N744	PE	300	300	20	12	5	200	20 at 100	1	20		2	
BF121	P	330	350	40	30	4	25	75 at 4	0.05	25		H.F. amplifiers & oscillators	37
BF127	P	330	350	40	30	4	25	60 at 4	0.05	20			37
BF125	PE	330	450	40	35	4	25	90 at 7	0.05	20	37		
BF123	PE	330	550	40	25	4	25	90 at 7	0.05	20	High speed switching	2	
2N3301	PE	360	250	60	30	5	500	35 at 10	0.01	50		2	
2N3302	PE	360	250	60	30	5	500	75 at 10	0.01	50		2	
2N2368	PE	360	400	40	15	4.5	500	40 at 10	0.4	20	H.S. saturated switching	2	
2N2369	PE	360	500	40	15	4.5	500	80 at 10	0.4	20		2	
2N2369A	PE	360	500	40	15	4.5	500	80 at 10	0.4	20		2	
BSW82	PE	500	200	40	25	5	500	30 at 10	0.1	30	High speed switching	2	
BSW83	PE	500	200	40	25	5	500	70 at 10	0.1	30		2	
BSW84	PE	500	200	75	40	5	500	35 at 10	0.01	50		2	
BSW85	PE	500	200	75	40	5	500	75 at 10	0.01	50		2	
2N2221	PE	500	250	60	30	5	800	35 at 10	0.01	50		2	
2N2221A	PE	500	250	75	40	6	800	35 at 10	0.01	60		2	
2N2222	PE	500	250	60	30	5	800	75 at 10	0.01	50		2	
2N2222A	PE	500	300	75	40	6	800	75 at 10	0.01	60		2	
BC337	PE	625	—	—	45	5	800	350 at 100	0.1	45		Medium level amplifiers	64
BC338	PE	625	—	—	25	5	800	350 at 100	0.1	45			64
BC140-6	PE	750	—	—	40	7	1A	70 at 100	0.1	40	High level amplifiers	2	
BC140-10	PE	750	—	—	40	7	1A	110 at 100	0.1	40		2	
BC140-16	PE	750	—	—	40	7	1A	175 at 100	0.1	40		2	
BC141-6	PE	750	—	—	60	7	1A	70 at 100	0.1	60		2	
BC141-10	PE	750	—	—	60	7	1A	110 at 100	0.1	60		2	
BC141-16	PE	750	—	—	60	7	1A	175 at 100	0.1	60		2	
BC340-6	PE	800	—	—	40	5	500	70 at 50	0.1	40	Medium level amplifiers	2	
BC340-10	PE	800	—	—	40	5	500	110 at 50	0.1	40		2	
BC340-16	PE	800	—	—	40	5	500	175 at 50	0.1	40		2	
BC341-6	PE	800	—	—	60	5	500	70 at 50	0.1	60		2	
BC341-10	PE	800	—	—	60	5	500	110 at 50	0.1	60		2	
BSY51 2N697	PE	800	100	60	25	5	500	80 at 150	0.1	30		Medium level switching	2
BSY52 2N1420											2		
BSY53 2N1613	PE	800	100	75	30	7	750	80 at 150	0.01	60	2		
BSY54 2N1711											2		
BSY55 2N1893	PE	800	100	120	80	7	500	80 at 150	0.01	90	2		
BSY56											2		
BSY87 2N1889	PE	800	100	100	60	7	500	80 at 150	0.01	75	2		
BSY88 2N1890											2		
2N1613	PE	800	100	75	50	7	500	80 at 150	0.01	60	Switching		2
2N1711	PE	800	100	75	50	7	500	200 at 150	0.01	60			2
2N1893	PE	800	100	120	80	7	500	80 at 150	0.01	90		2	

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